

# Switch-mode Power Rectifiers

# **DPAK Surface Mount Package**

# MBRD320G, MBRD330G, MBRD340G, MBRD350G, MBRD360G

These state-of-the-art devices are designed for use as output rectifiers, free wheeling, protection and steering diodes in switching power supplies, inverters and other inductive switching circuits.

#### **Features**

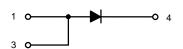
- Extremely Fast Switching
- Extremely Low Forward Drop
- Platinum Barrier with Avalanche Guardrings
- NRVBD and SBRD Prefixes for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant

### **Mechanical Characteristics:**

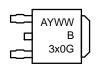
- Case: Epoxy, Molded
- Weight: 0.4 Gram (Approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead and Mounting Surface Temperature for Soldering Purposes; 260°C Max. for 10 Seconds
- ESD Ratings:
  - ◆ Machine Model = C
  - ♦ Human Body Model = 3B

# SCHOTTKY BARRIER RECTIFIERS 3.0 AMPERES, 20 – 60 VOLTS





### **MARKING DIAGRAM**



A = Assembly Location\* Y = Year

WW = Work Week
B3x0 = Device Code
x = 2, 3, 4, 5, or 6
G = Pb-Free Package

\* The Assembly Location Code (A) is front side optional. In cases where the Assembly Location is stamped in the package bottom (molding ejecter pin), the front side assembly code may be blank.

#### ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 3 of this data sheet.

NOTE: Some of the devices on this data sheet have been **DISCONTINUED**. Please refer to the table on page 3.

### **MAXIMUM RATINGS**

Postin in	Symbol	MBRD/SBRD8					
Rating		320	330	340	350	360	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	20	30	40	50	60	V
Average Rectified Forward Current (T <sub>C</sub> = +125°C)	I <sub>F(AV)</sub>	3		Α			
Peak Repetitive Forward Current, T <sub>C</sub> = +125°C (Square Wave, Duty = 0.5)	I <sub>FRM</sub>	6			Α		
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)	I <sub>FSM</sub>	75		Α			
Peak Repetitive Reverse Surge Current (2 μs, 1 kHz)	I <sub>RRM</sub>	1		Α			
Operating Junction Temperature Range (Note 1)	TJ	-65 to +175		°C			
Storage Temperature Range	T <sub>stg</sub>	-65 to +175		°C			
Voltage Rate of Change (Rated V <sub>R</sub> )	dv/dt	10,000		V/μs			

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

### THERMAL CHARACTERISTICS

Characteristic	Symbol	Value	Unit
Maximum Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	6	°C/W
Maximum Thermal Resistance, Junction-to-Ambient (Note 2)	$R_{\theta JA}$	80	°C/W

<sup>2.</sup> Rating applies when surface mounted on the minimum pad size recommended.

### **ELECTRICAL CHARACTERISTICS**

Characteristic	Symbol	Value	Unit
Maximum Instantaneous Forward Voltage (Note 3) $ \begin{aligned} &i_F = 3 \text{ Amps, } T_C = +25^{\circ}\text{C} \\ &i_F = 3 \text{ Amps, } T_C = +125^{\circ}\text{C} \\ &i_F = 6 \text{ Amps, } T_C = +25^{\circ}\text{C} \\ &i_F = 6 \text{ Amps, } T_C = +125^{\circ}\text{C} \end{aligned} $	V <sub>F</sub>	0.6 0.45 0.7 0.625	V
Maximum Instantaneous Reverse Current (Note 3) (Rated dc Voltage, T <sub>C</sub> = +25°C) (Rated dc Voltage, T <sub>C</sub> = +125°C)	İR	0.2 20	mA

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

<sup>1.</sup> The heat generated must be less than the thermal conductivity from Junction-to-Ambient:  $dP_D/dT_J < 1/R_{\theta JA}$ .

<sup>3.</sup> Pulse Test: Pulse Width = 300 μs, Duty Cycle ≤ 2.0%.

## **ORDERING INFORMATION**

Device	Package	Shipping <sup>†</sup>
MBRD340T4G		2,500 Tape & Reel
SBRD8340T4G-VF01*	DPAK (Pb-Free)	2,500 Tape & Reel
MBRD350T4G		2,500 Tape & Reel
MBRD360T4G		2,500 Tape & Reel
NRVBD360VT4G*		2,500 Tape & Reel

#### **DISCONTINUED** (Note 4)

	DISCONTINUED (Note 4)		
SBRD8320G-VF01*   75 Units / Rail	MBRD320G		75 Units / Rail
MBRD320RLG         1,800 Tape & Reel           MBRD320T4G         2,500 Tape & Reel           SBRD8320T4G-VF01*         2,500 Tape & Reel           MBRD330G         75 Units / Rail           SBRD8330G-VF01*         75 Units / Rail           MBRD330RLG         1,800 Tape & Reel           MBRD330T4G         2,500 Tape & Reel           SBRD8330T4G-VF01*         2,500 Tape & Reel           MBRD330T4G         2,500 Tape & Reel           SBRD8330T4G-VF01*         2,500 Tape & Reel           MBRD340G         75 Units / Rail           SBRD8340G*         75 Units / Rail           SBRD8340G-VF01*         DPAK           MBRD340RLG         1,800 Tape & Reel           MBRD340RLG         1,800 Tape & Reel           MBRD350G         75 Units / Rail           SBRD8350G*         75 Units / Rail           SBRD8350GLG*         75 Units / Rail           SBRD8350RLG - VF01*         75 Units / Rail           MBRD350RLG         1,800 Tape & Reel           SBRD8350TLG - VF01*         2,500 Tape & Reel           SBRD8350TLG - VF01*         1,800 Tape & Reel           SBRD8350TLG - VF01*         2,500 Tape & Reel           SBRD8360GLG - VF01*         75 Units / Rail           SBRD8360GLG -	SBRD8320G*		75 Units / Rail
MBRD320T4G   2,500 Tape & Reel	SBRD8320G-VF01*		75 Units / Rail
SBRD8320T4G*   2,500 Tape & Reel	MBRD320RLG		1,800 Tape & Reel
SBRD8320T4G-VF01*	MBRD320T4G		2,500 Tape & Reel
MBRD330G   75 Units / Rail	SBRD8320T4G*		2,500 Tape & Reel
SBRD8330G*   75 Units / Rail	SBRD8320T4G-VF01*		2,500 Tape & Reel
T5 Units / Rail	MBRD330G		75 Units / Rail
MBRD330RLG         1,800 Tape & Reel           MBRD330T4G         2,500 Tape & Reel           SBRD8330T4G*         2,500 Tape & Reel           SBRD8330T4G-VF01*         2,500 Tape & Reel           MBRD340G         75 Units / Rail           SBRD8340G*         75 Units / Rail           SBRD8340G*         75 Units / Rail           MBRD340RLG         1,800 Tape & Reel           SBRD8340T4G*         2,500 Tape & Reel           MBRD350G         75 Units / Rail           SBRD8350G*         75 Units / Rail           SBRD8350G-VF01*         75 Units / Rail           MBRD350RLG         1,800 Tape & Reel           SBRD8350RLG*         1,800 Tape & Reel           SBRD8350RLG-VF01*         2,500 Tape & Reel           SBRD8350T4G*         2,500 Tape & Reel           SBRD8350T4G-VF01*         2,500 Tape & Reel           MBRD360G         75 Units / Rail           SBRD8360T4G-VF01*         2,500 Tape & Reel           MBRD360G         75 Units / Rail           SBRD8360G-VF01*         75 Units / Rail           MBRD360G         75 Units / Rail           SBRD8360G-VF01*         1,800 Tape & Reel           SBRD8360G-VF01*         1,800 Tape & Reel           SBRD8360RLG-VF01*	SBRD8330G*		75 Units / Rail
MBRD330T4G         2,500 Tape & Reel           SBRD8330T4G*         2,500 Tape & Reel           SBRD8330T4G-VF01*         2,500 Tape & Reel           MBRD340G         75 Units / Rail           SBRD8340G*         75 Units / Rail           SBRD8340G-VF01*         DPAK (Pb-Free)         75 Units / Rail           MBRD340RLG         1,800 Tape & Reel           SBRD8340T4G*         2,500 Tape & Reel           MBRD350G         75 Units / Rail           SBRD8350G*         75 Units / Rail           SBRD8350G-VF01*         75 Units / Rail           MBRD350RLG         1,800 Tape & Reel           SBRD8350RLG-VF01*         1,800 Tape & Reel           SBRD8350T4G-VF01*         2,500 Tape & Reel           SBRD8350T4G-VF01*         2,500 Tape & Reel           MBRD360G         75 Units / Rail           SBRD8360G*         75 Units / Rail           SBRD8360G-VF01*         75 Units / Rail           MBRD360G         75 Units / Rail           SBRD8360RLG         75 Units / Rail           SBRD8360RLG         75 Units / Rail           SBRD8360G-VF01*         1,800 Tape & Reel           SBRD8360RLG         1,800 Tape & Reel	SBRD8330G-VF01*		75 Units / Rail
SBRD8330T4G*         2,500 Tape & Reel           SBRD8330T4G-VF01*         2,500 Tape & Reel           MBRD340G         75 Units / Rail           SBRD8340G*         75 Units / Rail           SBRD8340G-VF01*         75 Units / Rail           MBRD340RLG         75 Units / Rail           SBRD8340T4G*         1,800 Tape & Reel           MBRD350G         75 Units / Rail           SBRD8350G*         75 Units / Rail           SBRD8350G-VF01*         75 Units / Rail           MBRD350RLG         1,800 Tape & Reel           SBRD8350RLG-VF01*         1,800 Tape & Reel           SBRD8350T4G-VF01*         2,500 Tape & Reel           MBRD360G         75 Units / Rail           SBRD8360G*         75 Units / Rail           SBRD8360G-VF01*         2,500 Tape & Reel           MBRD360G         75 Units / Rail           SBRD8360G-VF01*         75 Units / Rail           MBRD360G         75 Units / Rail           SBRD8360G-VF01*         75 Units / Rail           MBRD360C         75 Units / Rail           SBRD8360RLG         1,800 Tape & Reel           SBRD8360RLG         1,800 Tape & Reel	MBRD330RLG		1,800 Tape & Reel
SBRD8330T4G-VF01*   2,500 Tape & Reel     MBRD340G   75 Units / Rail     SBRD8340G-VF01*   DPAK   75 Units / Rail     MBRD340RLG   1,800 Tape & Reel     MBRD350G   2,500 Tape & Reel     MBRD350G   75 Units / Rail     SBRD8350G-VF01*   75 Units / Rail     SBRD8350G-VF01*   75 Units / Rail     MBRD350RLG   75 Units / Rail     SBRD8350RLG*   1,800 Tape & Reel     SBRD8350RLG*   1,800 Tape & Reel     SBRD8350T4G-VF01*   1,800 Tape & Reel     SBRD8350T4G-VF01*   2,500 Tape & Reel     SBRD8350T4G-VF01*   2,500 Tape & Reel     SBRD8360G-VF01*   3,800 Tape & Reel     SBRD8360RLG-VF01*   3,800 Tape & Reel	MBRD330T4G		2,500 Tape & Reel
MBRD340G         75 Units / Rail           SBRD8340G*         75 Units / Rail           SBRD8340G-VF01*         75 Units / Rail           MBRD340RLG         1,800 Tape & Reel           SBRD8340T4G*         2,500 Tape & Reel           MBRD350G         75 Units / Rail           SBRD8350G*         75 Units / Rail           SBRD8350G-VF01*         75 Units / Rail           MBRD350RLG         1,800 Tape & Reel           SBRD8350RLG-VF01*         1,800 Tape & Reel           SBRD8350T4G*         2,500 Tape & Reel           SBRD8350T4G-VF01*         2,500 Tape & Reel           MBRD360G         75 Units / Rail           SBRD8360G*         75 Units / Rail           SBRD8360G-VF01*         75 Units / Rail           MBRD360RLG         1,800 Tape & Reel           SBRD8360RLG*         1,800 Tape & Reel           SBRD8360RLG*         1,800 Tape & Reel           SBRD8360RLG-VF01*         1,800 Tape & Reel	SBRD8330T4G*		2,500 Tape & Reel
SBRD8340G*         75 Units / Rail           SBRD8340G-VF01*         75 Units / Rail           MBRD340RLG         1,800 Tape & Reel           SBRD8340T4G*         2,500 Tape & Reel           MBRD350G         75 Units / Rail           SBRD8350G*         75 Units / Rail           SBRD8350RLG         75 Units / Rail           SBRD8350RLG*         1,800 Tape & Reel           SBRD8350RLG*         1,800 Tape & Reel           SBRD8350T4G*         2,500 Tape & Reel           SBRD8350T4G*         2,500 Tape & Reel           SBRD8350T4G*         2,500 Tape & Reel           SBRD8360G*         75 Units / Rail           SBRD8360RLG*         1,800 Tape & Reel           SBRD8360RLG*         1,800 Tape & Reel           SBRD8360RLG*         1,800 Tape & Reel	SBRD8330T4G-VF01*		2,500 Tape & Reel
BBRD8340G-VF01*   DPAK (Pb-Free)   T,800 Tape & Reel	MBRD340G		75 Units / Rail
MBRD340RLG  SBRD8340T4G*  MBRD350G  MBRD350G  75 Units / Rail  SBRD8350G-VF01*  MBRD350RLG  SBRD8350RLG-VF01*  SBRD8350RLG-VF01*  SBRD8350T4G*  SBRD8350T4G-VF01*  SBRD8350T4G-VF01*  SBRD8350T4G-VF01*  SBRD8350T4G-VF01*  SBRD8350T4G-VF01*  SBRD8360G-VF01*  MBRD360G  SBRD8360G-VF01*  SBRD8360G-VF01*  SBRD8360G-VF01*  SBRD8360G-VF01*  SBRD8360G-VF01*  SBRD8360G-VF01*  SBRD8360G-VF01*  SBRD8360G-VF01*  T5 Units / Rail	SBRD8340G*		75 Units / Rail
SBRD8340T4G*       2,500 Tape & Reel         MBRD350G       75 Units / Rail         SBRD8350G*       75 Units / Rail         SBRD8350G-VF01*       75 Units / Rail         MBRD350RLG       1,800 Tape & Reel         SBRD8350RLG*       1,800 Tape & Reel         SBRD8350RLG-VF01*       2,500 Tape & Reel         SBRD8350T4G*       2,500 Tape & Reel         SBRD8350T4G-VF01*       2,500 Tape & Reel         MBRD360G       75 Units / Rail         SBRD8360G*       75 Units / Rail         SBRD8360G-VF01*       75 Units / Rail         MBRD360RLG       1,800 Tape & Reel         SBRD8360RLG*       1,800 Tape & Reel         SBRD8360RLG-VF01*       1,800 Tape & Reel	SBRD8340G-VF01*	DPAK	75 Units / Rail
MBRD350G       75 Units / Rail         SBRD8350G*       75 Units / Rail         SBRD8350G-VF01*       75 Units / Rail         MBRD350RLG       1,800 Tape & Reel         SBRD8350RLG*       1,800 Tape & Reel         SBRD8350RLG-VF01*       1,800 Tape & Reel         SBRD8350T4G*       2,500 Tape & Reel         SBRD8350T4G-VF01*       2,500 Tape & Reel         MBRD360G       75 Units / Rail         SBRD8360G-VF01*       75 Units / Rail         SBRD8360RLG       1,800 Tape & Reel         SBRD8360RLG*       1,800 Tape & Reel         SBRD8360RLG-VF01*       1,800 Tape & Reel	MBRD340RLG	(Pb-Free)	1,800 Tape & Reel
SBRD8350G*       75 Units / Rail         SBRD8350G-VF01*       75 Units / Rail         MBRD350RLG       1,800 Tape & Reel         SBRD8350RLG*       1,800 Tape & Reel         SBRD8350RLG-VF01*       1,800 Tape & Reel         SBRD8350T4G*       2,500 Tape & Reel         SBRD8350T4G-VF01*       2,500 Tape & Reel         MBRD360G       75 Units / Rail         SBRD8360G*       75 Units / Rail         MBRD360RLG       1,800 Tape & Reel         SBRD8360RLG*       1,800 Tape & Reel         SBRD8360RLG-VF01*       1,800 Tape & Reel	SBRD8340T4G*		2,500 Tape & Reel
SBRD8350G-VF01*       75 Units / Rail         MBRD350RLG       1,800 Tape & Reel         SBRD8350RLG+VF01*       1,800 Tape & Reel         SBRD8350T4G-VF01*       2,500 Tape & Reel         SBRD8350T4G-VF01*       2,500 Tape & Reel         MBRD360G       75 Units / Rail         SBRD8360G-VF01*       75 Units / Rail         MBRD360G       1,800 Tape & Reel         SBRD8360RLG       1,800 Tape & Reel         SBRD8360RLG       1,800 Tape & Reel         SBRD8360RLG-VF01*       1,800 Tape & Reel	MBRD350G		75 Units / Rail
MBRD350RLG       1,800 Tape & Reel         SBRD8350RLG*       1,800 Tape & Reel         SBRD8350RLG-VF01*       1,800 Tape & Reel         SBRD8350T4G*       2,500 Tape & Reel         SBRD8350T4G-VF01*       2,500 Tape & Reel         MBRD360G       75 Units / Rail         SBRD8360G*       75 Units / Rail         SBRD8360G-VF01*       75 Units / Rail         MBRD360RLG       1,800 Tape & Reel         SBRD8360RLG*       1,800 Tape & Reel         SBRD8360RLG-VF01*       1,800 Tape & Reel	SBRD8350G*		75 Units / Rail
SBRD8350RLG*       1,800 Tape & Reel         SBRD8350RLG-VF01*       1,800 Tape & Reel         SBRD8350T4G*       2,500 Tape & Reel         SBRD8350T4G-VF01*       2,500 Tape & Reel         MBRD360G       75 Units / Rail         SBRD8360G*       75 Units / Rail         SBRD8360G-VF01*       75 Units / Rail         MBRD360RLG       1,800 Tape & Reel         SBRD8360RLG*       1,800 Tape & Reel         SBRD8360RLG-VF01*       1,800 Tape & Reel	SBRD8350G-VF01*		75 Units / Rail
SBRD8350RLG-VF01*       1,800 Tape & Reel         SBRD8350T4G*       2,500 Tape & Reel         SBRD8350T4G-VF01*       2,500 Tape & Reel         MBRD360G       75 Units / Rail         SBRD8360G*       75 Units / Rail         SBRD8360G-VF01*       75 Units / Rail         MBRD360RLG       1,800 Tape & Reel         SBRD8360RLG*       1,800 Tape & Reel         SBRD8360RLG-VF01*       1,800 Tape & Reel	MBRD350RLG		1,800 Tape & Reel
SBRD8350T4G*       2,500 Tape & Reel         SBRD8350T4G-VF01*       2,500 Tape & Reel         MBRD360G       75 Units / Rail         SBRD8360G*       75 Units / Rail         SBRD8360G-VF01*       75 Units / Rail         MBRD360RLG       1,800 Tape & Reel         SBRD8360RLG*       1,800 Tape & Reel         SBRD8360RLG-VF01*       1,800 Tape & Reel	SBRD8350RLG*		1,800 Tape & Reel
SBRD8350T4G-VF01*       2,500 Tape & Reel         MBRD360G       75 Units / Rail         SBRD8360G*       75 Units / Rail         SBRD8360G-VF01*       75 Units / Rail         MBRD360RLG       1,800 Tape & Reel         SBRD8360RLG*       1,800 Tape & Reel         SBRD8360RLG-VF01*       1,800 Tape & Reel	SBRD8350RLG-VF01*		1,800 Tape & Reel
MBRD360G       75 Units / Rail         SBRD8360G*       75 Units / Rail         SBRD8360G-VF01*       75 Units / Rail         MBRD360RLG       1,800 Tape & Reel         SBRD8360RLG*       1,800 Tape & Reel         SBRD8360RLG-VF01*       1,800 Tape & Reel	SBRD8350T4G*		2,500 Tape & Reel
SBRD8360G*       75 Units / Rail         SBRD8360G-VF01*       75 Units / Rail         MBRD360RLG       1,800 Tape & Reel         SBRD8360RLG*       1,800 Tape & Reel         SBRD8360RLG-VF01*       1,800 Tape & Reel	SBRD8350T4G-VF01*		2,500 Tape & Reel
SBRD8360G-VF01*         75 Units / Rail           MBRD360RLG         1,800 Tape & Reel           SBRD8360RLG*         1,800 Tape & Reel           SBRD8360RLG-VF01*         1,800 Tape & Reel	MBRD360G		75 Units / Rail
MBRD360RLG       1,800 Tape & Reel         SBRD8360RLG*       1,800 Tape & Reel         SBRD8360RLG-VF01*       1,800 Tape & Reel	SBRD8360G*		75 Units / Rail
SBRD8360RLG*         1,800 Tape & Reel           SBRD8360RLG-VF01*         1,800 Tape & Reel	SBRD8360G-VF01*		75 Units / Rail
SBRD8360RLG-VF01* 1,800 Tape & Reel	MBRD360RLG		1,800 Tape & Reel
	SBRD8360RLG*		1,800 Tape & Reel
SBRD8360T4G* 2,500 Tape & Reel	SBRD8360RLG-VF01*		1,800 Tape & Reel
	SBRD8360T4G*		2,500 Tape & Reel

<sup>†</sup>For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

<sup>4.</sup> **DISCONTINUED:** These devices are not recommended for new design. Please contact your **onsemi** representative for information. The most current information on these devices may be available on <a href="https://www.onsemi.com">www.onsemi.com</a>.



<sup>\*</sup>NRVBD and SBRD Prefixes for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC–Q101 Qualified and PPAP Capable.

### **TYPICAL CHARACTERISTICS**

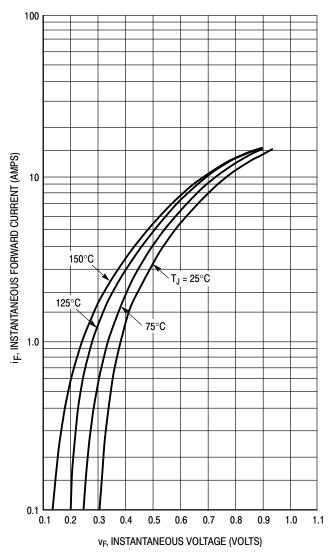
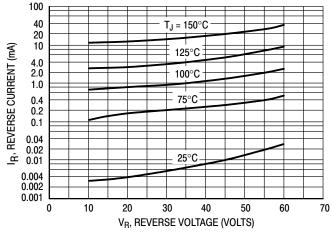


Figure 1. Typical Forward Voltage



\*The curves shown are typical for the highest voltage device in the voltage grouping. Typical reverse current for lower voltage selections can be estimated from these curves if  $V_R$  is sufficient below rated  $V_R$ .

**Figure 2. Typical Reverse Current** 

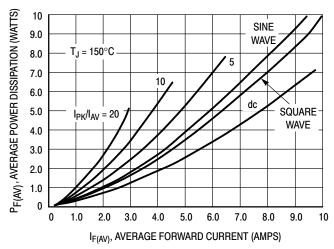


Figure 3. Average Power Dissipation

### **TYPICAL CHARACTERISTICS**

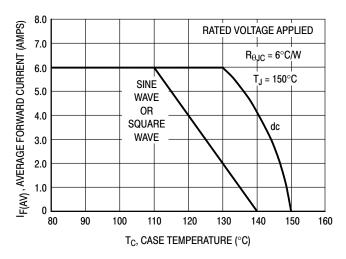


Figure 4. Current Derating, Case

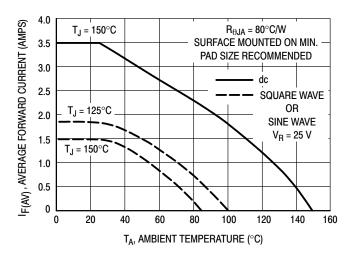


Figure 5. Current Derating, Ambient

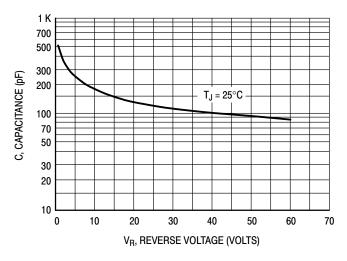
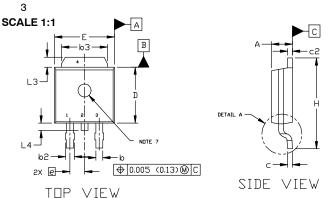


Figure 6. Typical Capacitance

# **DPAK (SINGLE GAUGE)**

CASE 369C ISSUE G

**DATE 31 MAY 2023** 

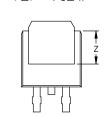


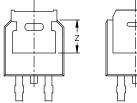


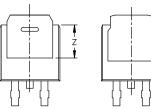
- DIMENSIONING AND TOLERANCING ASME Y14.5M, 1994. CONTROLLING DIMENSION: INCHES
- THERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSIONS 63,
- L3. AND Z. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH,
  PROTRUSIONS, OR BURRS. MOLD FLASH, PROTRUSIONS, OR
  GATE BURRS SHALL NOT EXCEED 0.006 INCHES PER SIDE.
- DIMENSIONS D AND E ARE DETERMINED AT THE DUTERMOST EXTREMES OF THE PLASTIC BODY.

  DATUMS A AND B ARE DETERMINED AT DATUM PLANE H.
- OPTIONAL MOLD FEATURE.

DIM	INCHES		MILLIMETERS		
וווע	MIN.	MAX.	MIN.	MAX.	
Α	0.086	0.094	2.18	2.38	
A1	0.000	0.005	0.00	0.13	
b	0.025	0.035	0.63	0.89	
b2	0.028	0.045	0.72	1.14	
b3	0.180	0.215	4.57	5.46	
С	0.018	0.024	0.46	0.61	
c2	0.018	0.024	0.46	0.61	
D	0.235	0.245	5.97	6.22	
E	0.250	0.265	6.35	6.73	
е	0.090	BSC	2.29 BSC		
Н	0.370	0.410	9.40	10.41	
L	0.055	0.070	1.40	1.78	
L1	0.114 REF		2.90	REF	
L2	0.020	BSC	0.51	BSC	
L3	0.035	0.050	0.89	1.27	
L4		0.040		1.01	
Z	0.155		3.93		





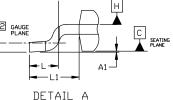


BOTTOM VIEW

5.80

BOTTOM VIEW ALTERNATE

CONSTRUCTIONS [0.228] 6.20 L2 GAUGE PLANE [0.244] 2.58 3.00 [0.102] [0.118] 1.60 [0.063] 6.17



STYLE 5: PIN 1. GATE

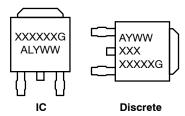
2. ANODE

3 CATHODE

ANODE

CW ROTATED 90°

## **GENERIC MARKING DIAGRAM\***



= Device Code
= Assembly Location
= Wafer Lot
= Year
= Work Week
= Pb-Free Package

RECOMMENDED MOUNTING FOOTPRINT\* \*FOR ADDITIONAL INFORMATION ON OUR PB-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DUWNLOAD THE ON SEMICONDUCTOR SOLDERING AND MOUNTING TECHNIQUES REFERENCE MANUAL, SOLDERRM/D.

[0.243]

STYLE 1: PIN 1. BASE STYLE 2: PIN 1. GATE STYLE 3: PIN 1. ANODE STYLE 4: PIN 1. CATHODE 2. COLLECTOR 2. DRAIN 2. CATHODE 2. ANODE 3 SOURCE 3 FMITTER 3 ANODE 3 GATE

COLLECTOR 4. DRAIN 4. CATHODE 4. ANODE STYLE 6: STYLE 7: PIN 1. GATE 2. COLLECTOR STYLE 8: STYLE 9: PIN 1. MT1 2. MT2

STYLE 10: PIN 1. N/C 2. CATHODE 3. ANODE PIN 1. ANODE 2. CATHODE PIN 1. CATHODE 2. ANODE 3 CATHODE 3 FMITTER 3 RESISTOR ADJUST 4. COLLECTOR 4. CATHODE 4. ANODE CATHODE

\*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "■", may or may not be present. Some products may not follow the Generic Marking.

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DESCRIPTION:	DPAK (SINGLE GAUGE)		PAGE 1 OF 1	

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3 GATE

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