

Micro Commercial Components



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Features

- 3.3thru 4.7 Volt Voltage Range
- Low Inductance, Low Profile Mounting
- Glasss Passivated Junction
- High specified maximum current(IZM) when adequately heat sinking
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- Surface Mount Application

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Terminals solderable per MIL-STD-750, Method 2026
- Polarity is indicated by cathode band.
- Packaging: Standard 12mm Tape (see EIA 481)
- Maximum temperature for soldering: 260°C for 10 seconds.

Maximum Ratings @ 25°C Unless Otherwise Specified

Maximum Forward Voltage	V_{F}	1.5V	(Note: 2)
Steady State Power Dissipation	P _d	3.0W	(Note: 3)
Operation and Storage Temperature	T _J , T _{STG}	-55°C to +150°C	
Thermal Resistance Junction to Lead	R_{thJL}	25℃/W	
Thermal Resistance Junction to Ambient	R $_{\rm thJA}$	135℃/W	

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

2. Forward Current @ 200mA.

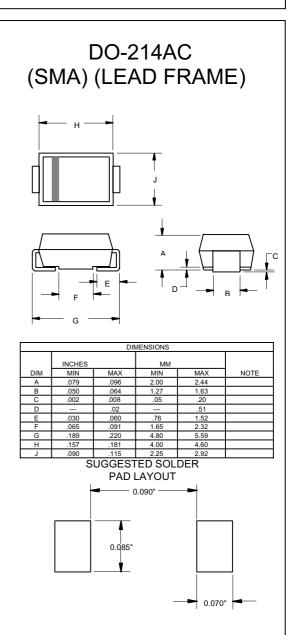
3. Mounted on 5.0mm2 (1oz thick) land areas.

Lead temperature at $T_{L=75}^{o}C$ Lead temperature at $T_{A=15}^{o}C$

3SMAJ5913B THRU 3SMAJ5917B

3.0 Watt Surface Mount Silicon

Zener Diodes



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Revision: A

2018/01/01



MCC PART NUMBER	ZENER VOLTAGE Vz (1)	TEST CURRENT Izt	MAXIMUM DYNAMIC IMPEDANCE Zzt @Izt	KNEE CURRENT Izk	KNEE IMPEDANCE Zzk	MAXIMUM REVERSE CURRENT IR	REVERSE VOLTAGE Vr	Maximum DC Zener Current I _{ZM}	DEVICE MARKING
	VOLTS	mA	OHMS	mA	OHMS	μA	VOLTS	mA	
3SMAJ5913B	3.3	113.6	10	1	500	100	1	908	H13B
3SMAJ5914B	3.6	104.2	9	1	500	75	1	832	H14B
3SMAJ5915B	3.9	96.1	7.5	1	500	25	1	768	H15B
3SMAJ5916B	4.3	87.2	6	1	500	5	1	696	H16B
3SMAJ5917B	4.7	79.8	5	1	500	5	1.5	638	H17B

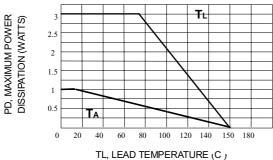
ELECTRICAL CHARACTERISTICS (T_L=30C unless otherwise noted) (V_F=1.5Volts Max @ I_F=200mAdc for all types.)

Note 1: TOLERANCE AND VOLTAGE DESIGNATION - The type numbers listed indicate a tolerance of +/- 5%.





RATING AND CHARACTERISTICS CURVES



TL, LEAD TEMPERATURE (C) TA, AMBIENT TEMPERATURE (C) Fig. 1-STEADY STATE POWER DERATING

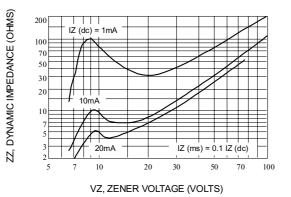
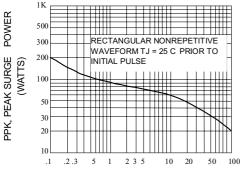


Fig. 5-EFFECT OF ZENER VOLTAGE



PW, PULSE WIDTH(ms)

Fig. 7- PULSE RATING CURVE

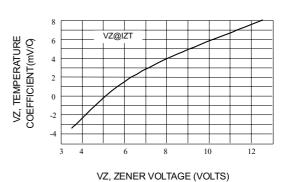


Fig. 2-ZENER VOLTAGE- 5.1 TO 12 VOLTS

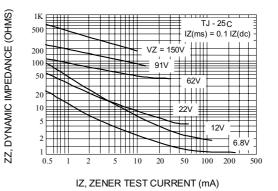


Fig. 6-EFFECT OF ZENER CURRENT

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Ordering Information :

Device	Packing		
Part Number-TP	Tape&Reel: 7.5Kpcs/Reel		

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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