



Micro Commercial Components

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3SMAJ5913B THRU 3SMAJ5917B

3.0 Watt
Surface Mount
Silicon
Zener Diodes

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.

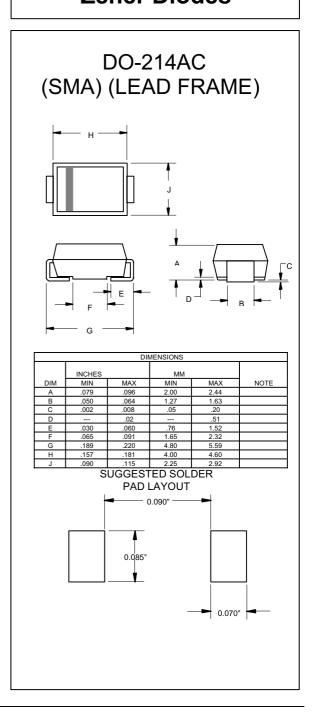
Maximum Ratings @ 25°C Unless Otherwise Specified

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 $_{\mathrm{thJA}}$	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 $T_{L=75}^{\circ}C$ Lead temperature at $T_{A=15}^{\circ}C$





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

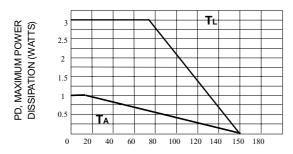
MCC PART NUMBER	ZENER VOLTAGE Vz (1)	TEST CURRENT Izt	MAXIMUM DYNAMIC IMPEDANCE Zzt @Izt	KNEE CURRENT Izk	KNEE IMPEDANCE Zzk	MAXIMUM REVERSE CURRENT IR	REVERSE VOLTAGE V _R	Maximum DC Zener Current Izm	DEVICE MARKING
	VOLTS	mA	OHMS	mA	OHMS	μΑ	VOLTS	mA	
3SMAJ5913B	3.3	113.6	10	1	500	100	1	908	H13B
3SMAJ5914B	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

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

2018/01/01 Revision: A



RATING AND CHARACTERISTICS CURVES



TL, LEAD TEMPERATURE (C) TA, AMBIENT TEMPERATURE (C)

Fig. 1-STEADY STATE POWER DERATING

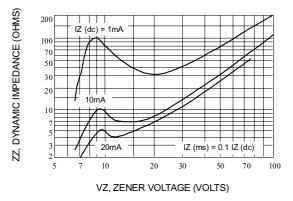


Fig. 5-EFFECT OF ZENER VOLTAGE

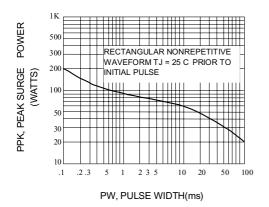
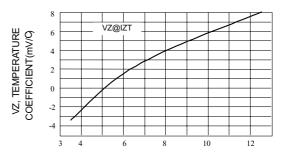


Fig. 7- PULSE RATING CURVE



VZ, ZENER VOLTAGE (VOLTS)

Fig. 2-ZENER VOLTAGE- 5.1 TO 12 VOLTS

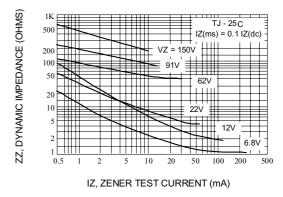


Fig. 6-EFFECT OF ZENER CURRENT



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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