HSM840JE3/TR13
Schottky Rectifier Diodes

Features

- Metal silicon junction, majority carrier
- conduction For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability



SMC



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
HSM840JE3/TR13	SMC	SS84C	3000

Maximum Ratings (Ta=25°C unless otherwise noted)

Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Type Number		Limit	Units
Maximum Recurrent Peak Reverse Voltage		40	V
Maximum RMS Voltage		28	V
Maximum DC Blocking Voltage		40	V
Maximum Average Forward Rectified Current		8.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		150	A
Maximum Instantaneous Forward Voltage at 8.0A		0.55	V
Maximum DC Reverse Current	Ta=25°C	0.1	μA
at Rated DC Blocking Voltage	Ta=125°C	50	mA
Typical Junction Capacitance		600	pF
Typical Thermal Resistance R JA		35	°C/W
Operating Temperature Range T_J		-55 to +150	°C
Storage Temperature Range T_{STG}		-55 to +150	°C

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.27" x 0.27" (7.0 mm x 7.0 mm) copper pad areas

Typical Characteristics

Fig.1 Forward Current Derating Curve

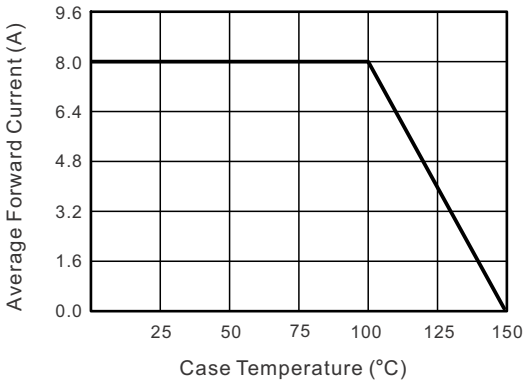


Fig.2 Typical Reverse Characteristics

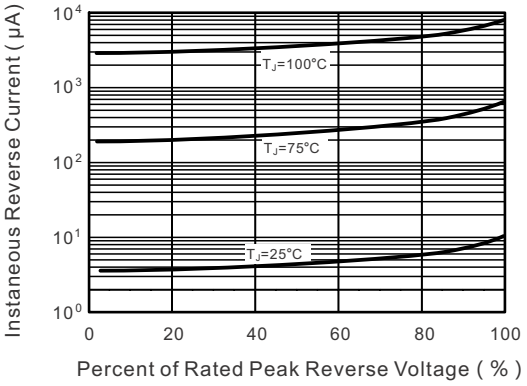


Fig.3 Typical Forward Characteristic

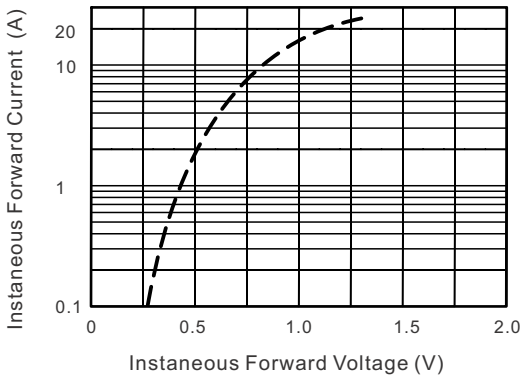


Fig.4 Typical Junction Capacitance

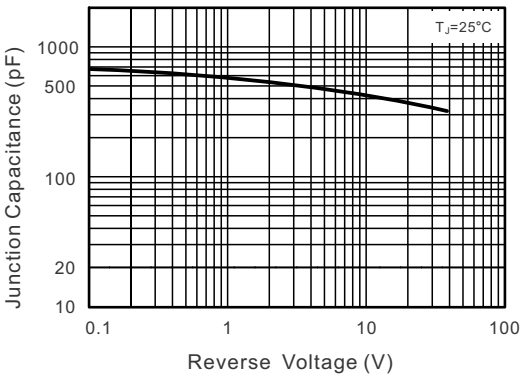


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

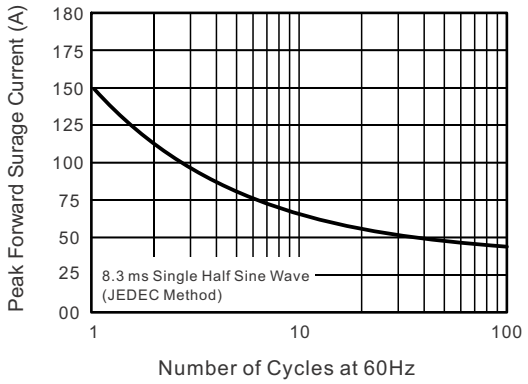
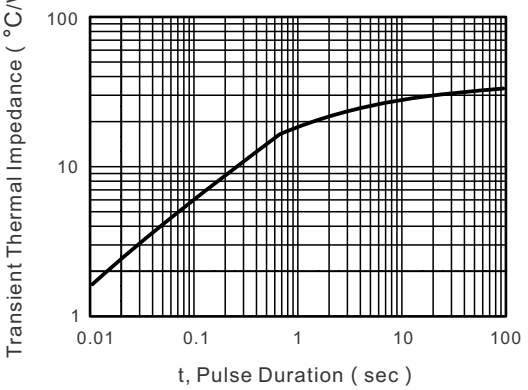
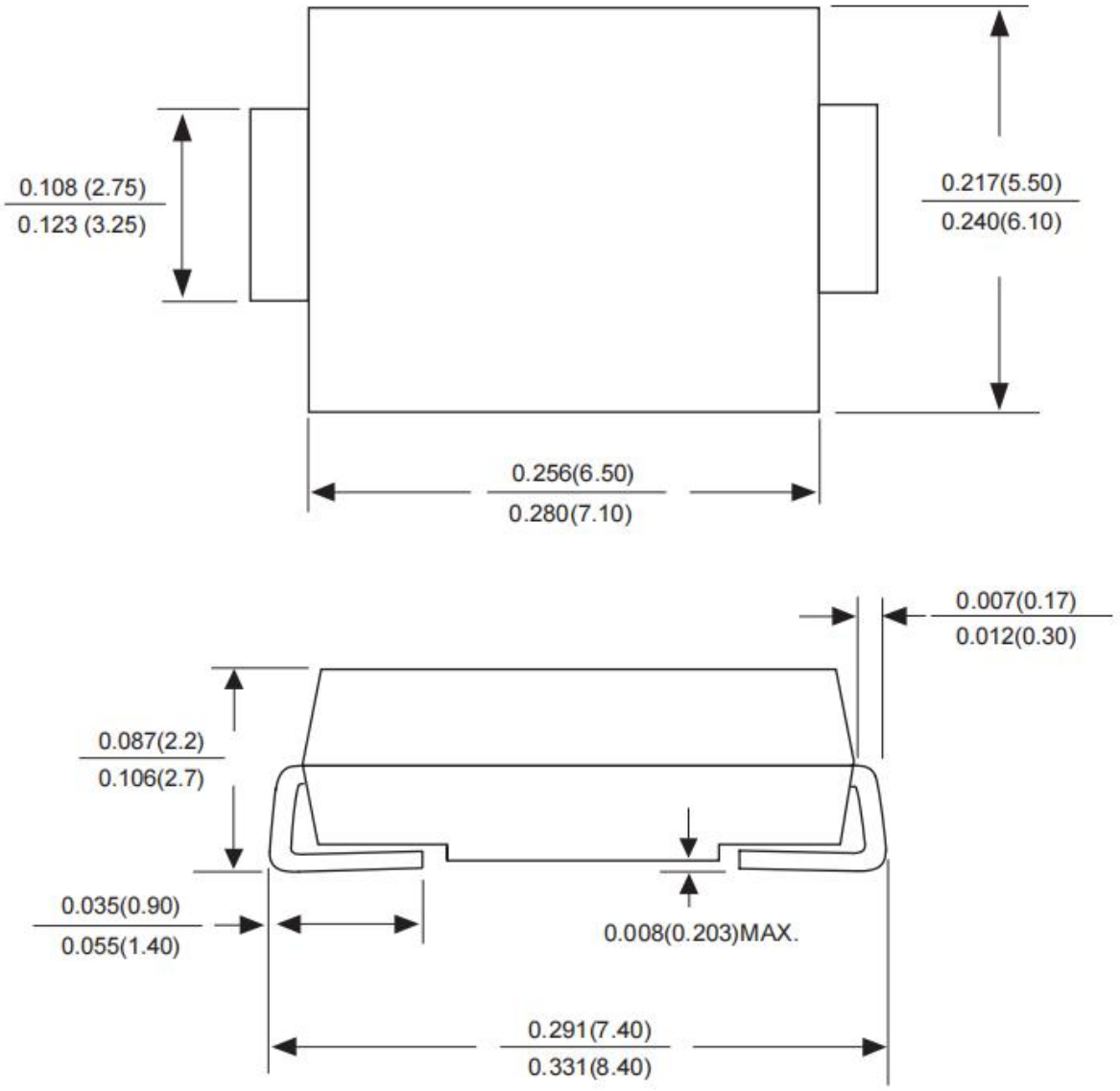


Fig.6- Typical Transient Thermal Impedance



Package Outline Dimensions

SMC



Dimensions in inches and (millimeters)

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HXY MOSFET:

AZ4007-01H ESD5LM5.0C-HXY HPTVSUC3D5VB HRCLAMP3371ZCTFT HESDSLC3V3D3B HSG3D15B3.3MA RLSD32A121V PESDNC2XD5VBL PESDSC2FD5VU TPSMB28A-VR 60N06 AZ4836-01L PJEC5V0M1FN2 ESD5L5.0C-HXY HAZ4007-01H HLY323BC1524L HSEN2411D3 HSTS521050B331 HSEN3611D3 PESDNC2XD5VBF TPSMB100CA-VR AQ15C-01FTG HACPDQC5V0-HF LM393DR-HXY PJSD24CW_R1 BV05C-H HCEZ36V,L3F HESD36VD3B HSD15C.TCT PESDLC2FD3V3BH