LSM840JE3/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)
LSM840JE3/TR13	SMC	SS84	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 $R_{\theta JA}$	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

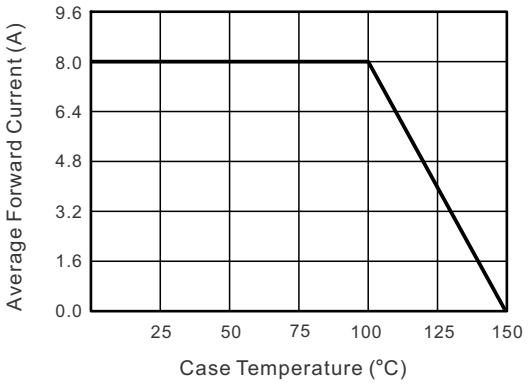


Fig.2 Typical Reverse Characteristics

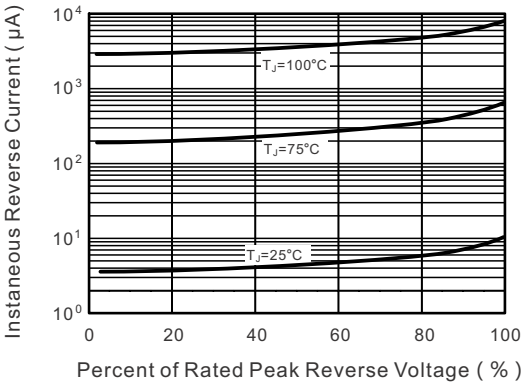


Fig.3 Typical Forward Characteristic

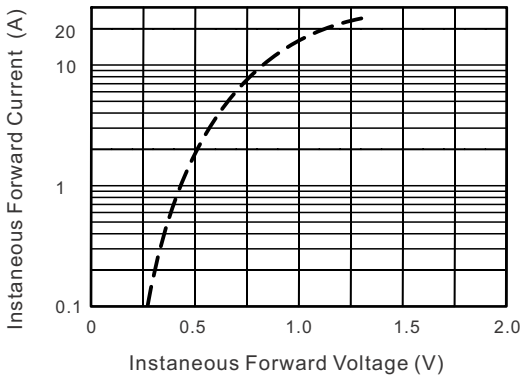


Fig.4 Typical Junction Capacitance

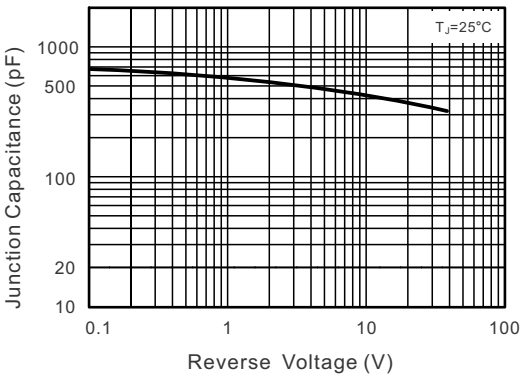


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

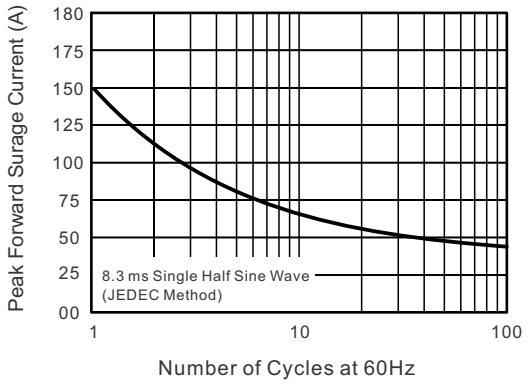
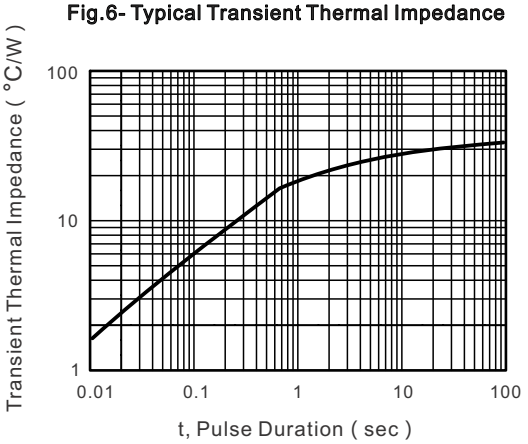
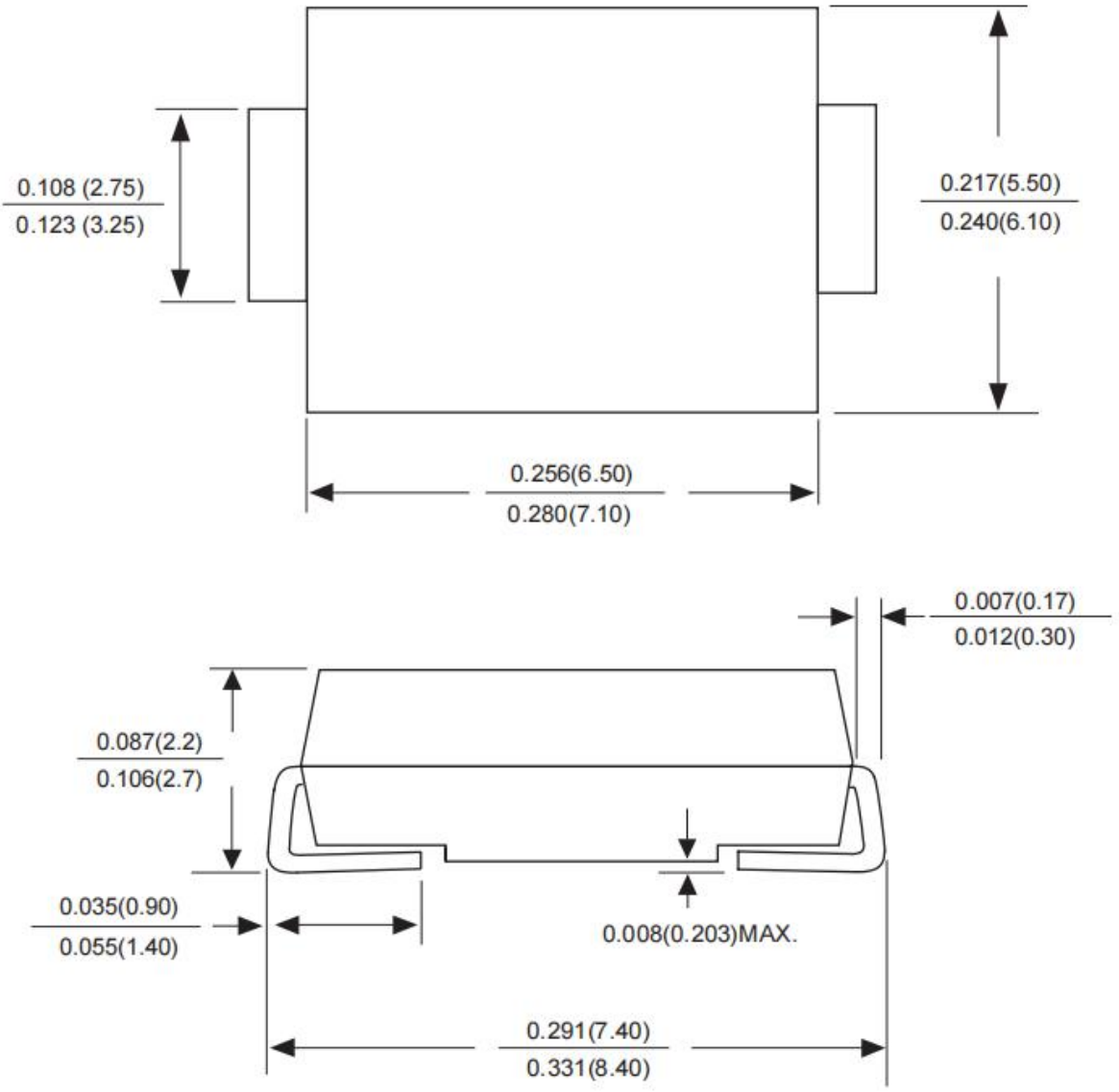


Fig.6- Typical Transient Thermal Impedance



Package Outline Dimensions

SMC



Dimensions in inches and (millimeters)

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HXY MOSFET:

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