

PLASTIC SILICON RECTIFIERS

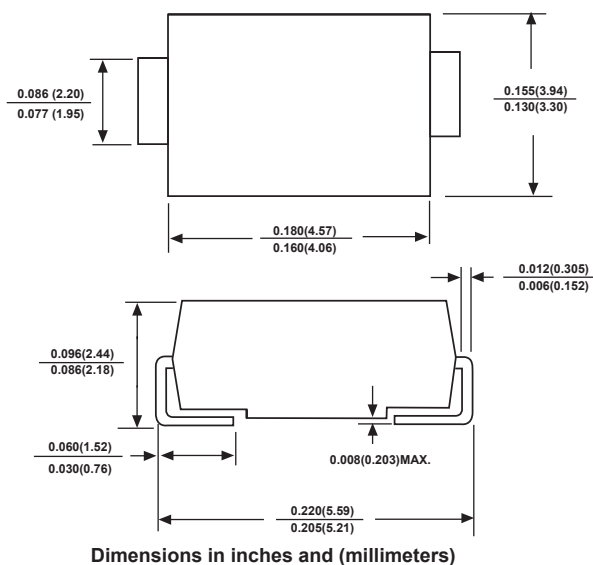
VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 2.0 A

FEATURES

- Lead free finish/Rohs compliant (Note 1) ("P" suffix designates compliant. See ordering information)
- For surface mount applications
- Easy pick and place
- High temperature soldering: 260°C for 10 seconds at terminals
- Low thermal resistance
- Epoxy meets UL 94V-0 flammability rating
- Moisture sensitivity level 1

MECHANICAL DATA

- Case:SMB molded plastic body
- Terminals:Lead solderable per MIL-STD-750,method 2026
- Polarity:Color band denotes cathode end



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)Single phase,half wave,60 Hz,resistive or inductive load.

For capacitive load,derate by 20%.

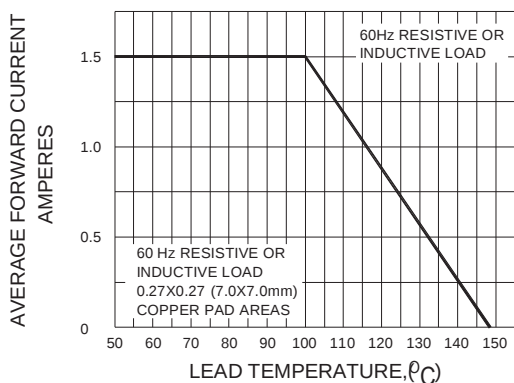
	SYMBOLS	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Average Forward Current TJ=75°C	F(AV)	2.0							Amps
Peak Forward Surge Current 8.3ms, half sine, TJ=150°C	IFSM	50							Amps
Maximum Instantaneous Forward Voltage IFM=2.0A TJ=25°C	VF	1.10							Volts
Maximum Reverse Current at rated DC blocking voltage DCTJ=25°C TJ=125°C	IR	10							μA
		50							μA
Typical Junction Capacitance Measured at 1.0MHz, VR=4.0V	CJ	20							pF

NOTES:

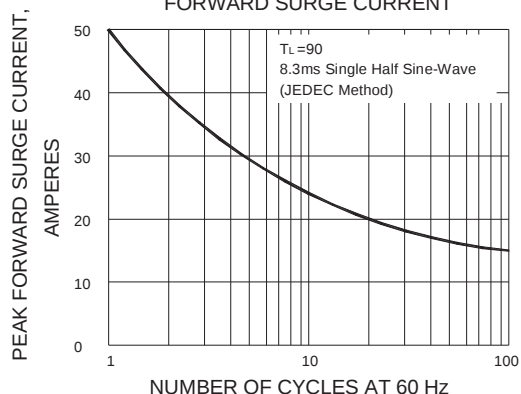
1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

RATINGS AND CHARACTERISTIC CURVES

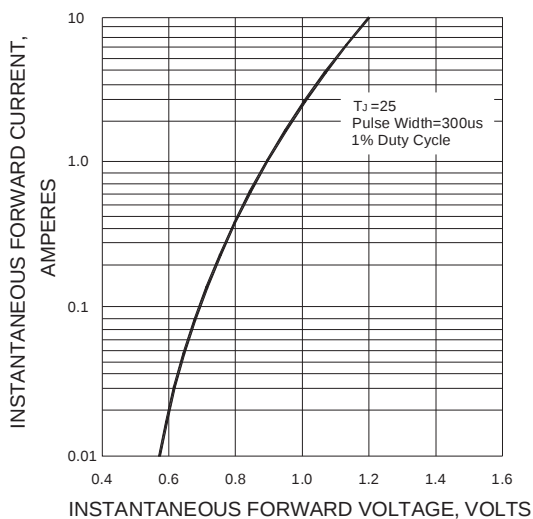
F1G.1-FORWARD CURRENT
DERATING CURVE



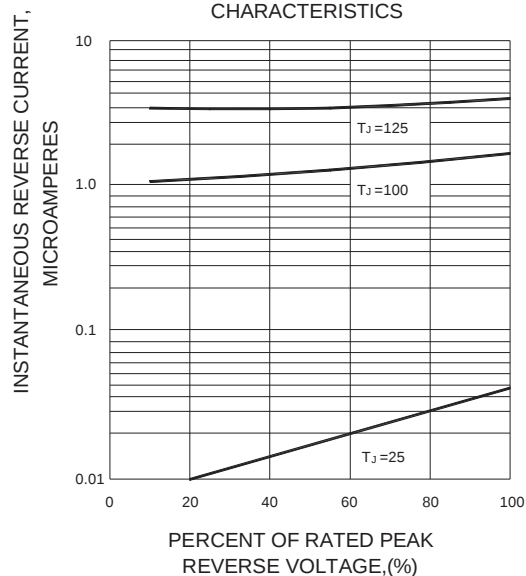
F1G.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT



F1G.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE
CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE

