SM22 THRU SM26

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

FEATURES:

- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Guard ring for overvoltage protection
- High temperature soldering quaranteed:
 250°C /10 seconds at terminals

MECHANICAL DATA

Case: Molded plastic use UL 94V-0 recognized flame

retardant epoxy

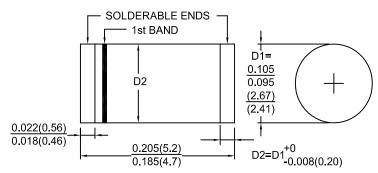
Terminals: Solder plated, solderable per MIL-STD-750

Method 2026

Polarity: Blue color band on body denotes cathode

Weight: 0.116 grams, 0.0046 ounce

MELF / DO-213AB



1st band denotes type positive and (cathode)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	SM 22	SM 23	SM 24	SM 25	SM 26	Units
Maximum recurrent peak reverse voltage	Vrrm	20	30	40	50	60	Volts
Maximum RMS voltage	VRMS	14	21	28	35	42	Volts
Maximum DC blocking voltage	VDC	20	30	40	50	60	Volts
Maximum average forward rectified current at TL(SEE FIG.1)	I(AV)	2.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	50.0					Amps
Maximum instantaneous forward voltage at 2.0 A(NOTE 1)	VF	0.50 0.55 0.70		0.70	Volts		
Maximum instantaneous reverse current Ta=25 $^{\circ}$ C at rated DC blocking voltage (NOTE 1) Ta=100 $^{\circ}$ C	IR	0.5 20.0					mA
Maximum thermal resistance(NOTE 2)	Rth-JA Rth-JL	55.0 17.0					°C/W
Operating junction temperature range	TJ	-65 to +150					င
Storage temperature range	Tstg	-65 to +150					ొ

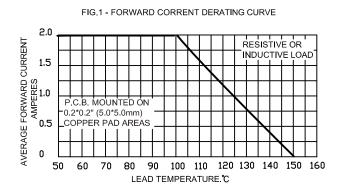
NOTES:

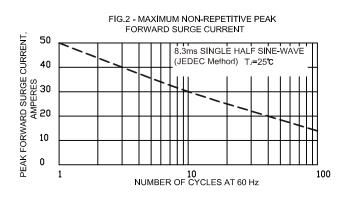
(1) Pulse test: 300 μ s pulse width,1% duty cycle

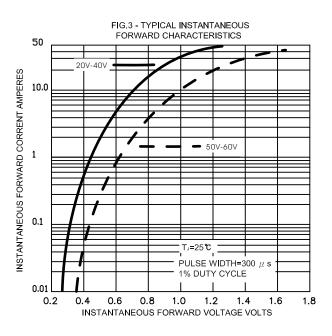
(2) P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

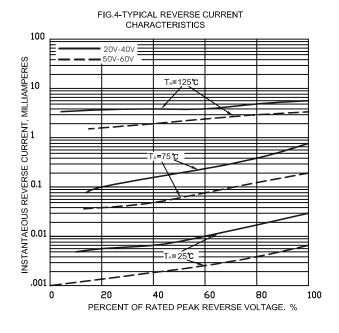
SM22 THRU SM26

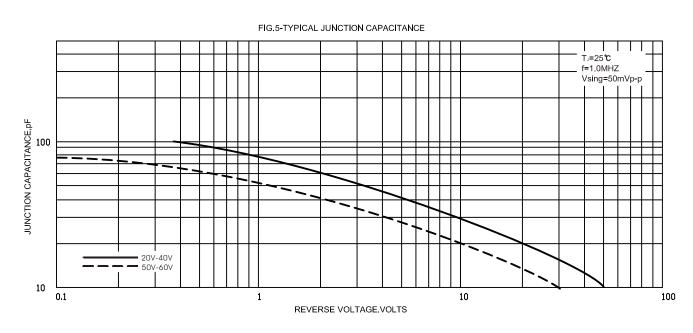
RATINGS AND CHARACTERISTIC CURVES













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