

SM201 THRU SM207

SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIERS

FEATURES

- . Ideal for surface mounted applications
- . Easy pick and place
- . Low leakage current
- . Glass passivated chips
- . Metallurgically bonded construction
- . High temperature soldering guaranteed:
250°C/10 seconds/.375", (9.5mm) lead lengths

MECHANICAL DATA

Case: Molded plastic use UL94V-0 recognized
flame retardant epoxy

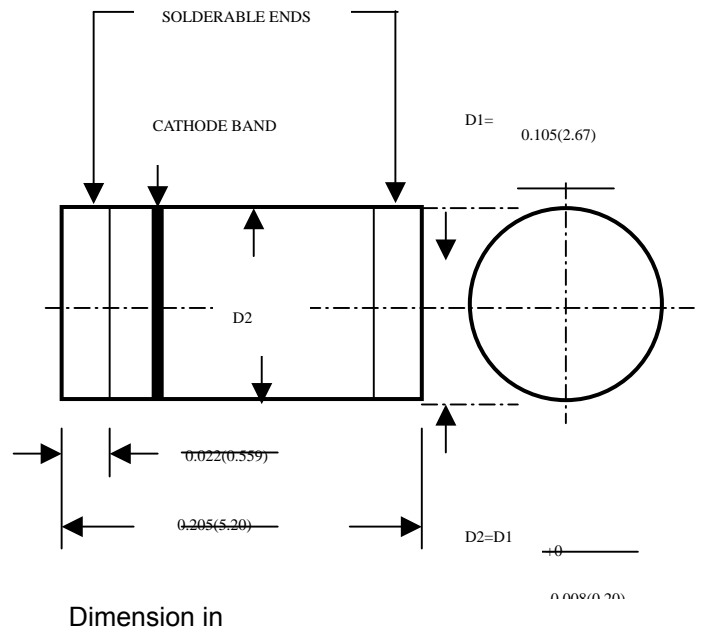
Terminals: Plated terminals, solderable per
MIL-STD-202, method 208

Polarity: Red color band on body denotes cathode

Mounting position: Any

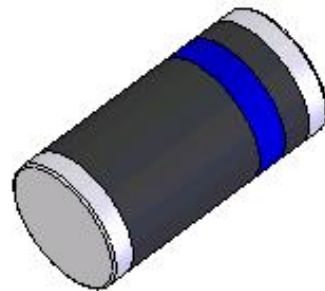
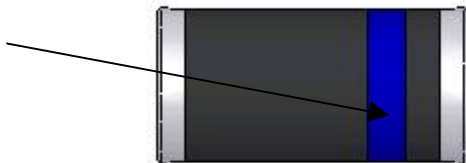
Weight: 0.12grams

DO-213AB/MELF



DEVICEMARKING

陰極線



整流二極管通用符號:



RATING AND CHARACTERISTIC CURVES

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C Ambient temp. unless otherwise specified.

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

For capacitive load, derate current by 20%

	SYMBOL	SM201	SM202	SM203	SM204	SM205	SM206	SM207	UNIS
Maximum Current 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
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @ T _T =60°C	I(AV)	2.0							Amps
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	55							Amps
Maximum Instantaneous Forward Voltage @ 2.0A	VF	1.1							Volts
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C	IR	5.0 100							uA
Maximum Full Load Reverse Current, Full Cycle Average 0.375" (9.5mm) Lead Length @ T _A =75°C	IR(AV)	30.0							uA
Typical Junction Capacitance (Note 1)	CJ	30.0							pF
Typical Thermal Resistance R _{θJA} (Note 2)	R _{θJA}	50.0							°C/W
Operating Temperature Range T _J	TJ	-65 to +150							°C
Storage Temperature Range T _{STG}	TSTG	-65 to +150							°C

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

2. Thermal Resistance from Junction to Ambient .375" (9.5mm) Lead Length.

RATING AND CHARACTERISTIC CURVES SM201 THRU SM207

FIG. 1 – DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

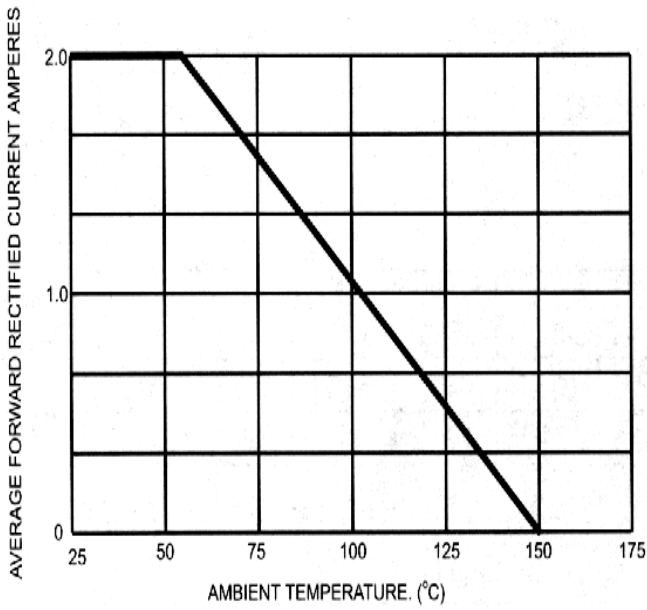


FIG. 2 – MAXIMUM NON – REPETITIVE PEAK FORWARD SURGE

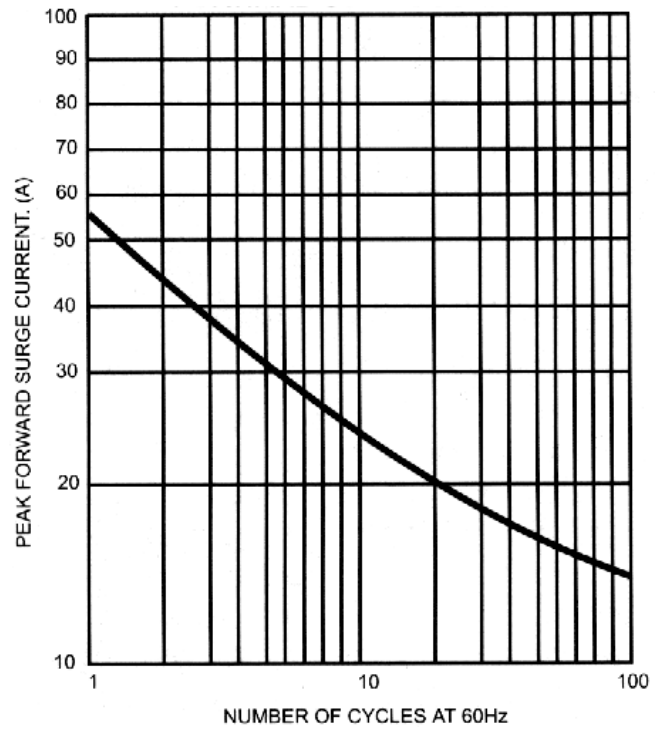


FIG. 3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

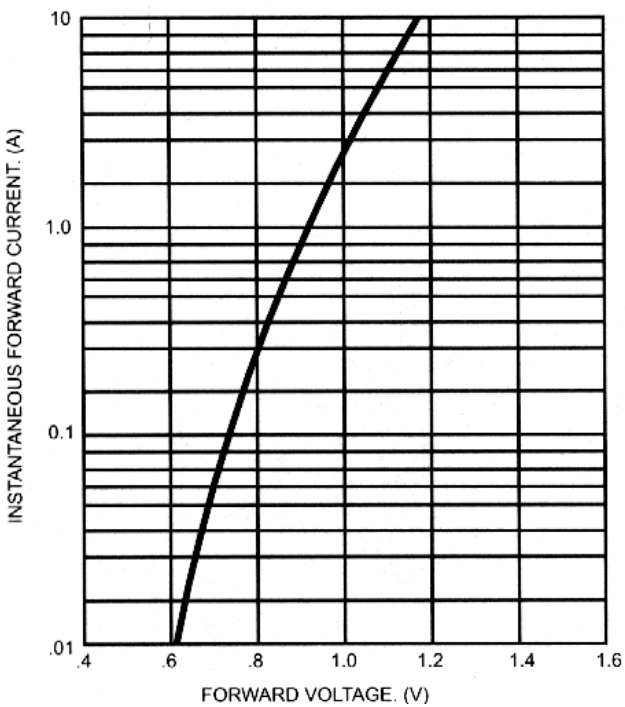


FIG. 4 – TYPICAL JUNCTION CAPACITANCE

