Topdiode Manufacturing Company
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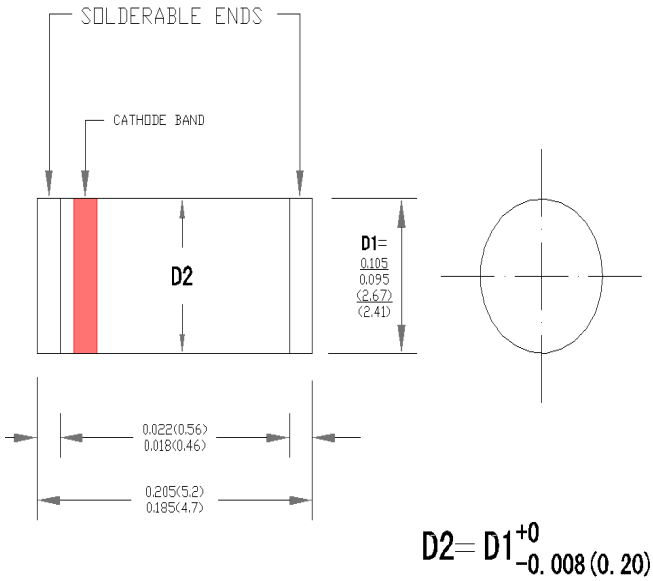
Glass Passivated Super Fast Silicon Rectifiers

SM4933 THRU SM4937

DO-213AB

FEATURES

Ideal for surface mounted applications
Easy pick and place
Low leakage current
Fast switching
High temperature soldering guaranteed:
250℃/10 seconds/.375",(9.5mm) lead lengths



Dimension inches (millimeters)

MECHANICAL DATA

DO-213AB Case: Molded plastic DO-213AB
Epoxy: UL94V-0 rate flame retardant
Terminals: Plated terminals, solderable per MIL-STD-202, method 208
Polarity: Color band denotes cathode end
Mounting position: Any
Weight: 0.12gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ Ambient temp. Unless otherwise specified.Single phase, half sine wave, 60HZ,resistive or inductive load.
For capacitive load, derate current by 20%

	SYMBOL	SM 4933	SM 4934	SM 4935	SM 4936	SM 4937	UNITS
Maximum current Peak Reverse Voltage	VRRM	50	100	200	400	600	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	Volts
Maximum Average Forward Rectified Current T_T=55℃	I(AV)	1.0					Amps
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	IFSM	30					Amps
Maximum Instantaneous Forward Voltage @ 1.0A	VF	1.3					Volts
Maximum DC Reverse Current @ T_A=25℃ at Rated DC Blocking Voltage @ T_A=125℃	IR	5.0 100.0					uA
Maximum Reverse Recovery Time (Note 1)	Trr	200					nS
Typical Junction Capacitance (Note 2)	CJ	15					pF
Operating AND Storage Temperature Range	TJ /TSTG	-55 to +150					℃

Notes: 1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

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FIG. 1 – REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

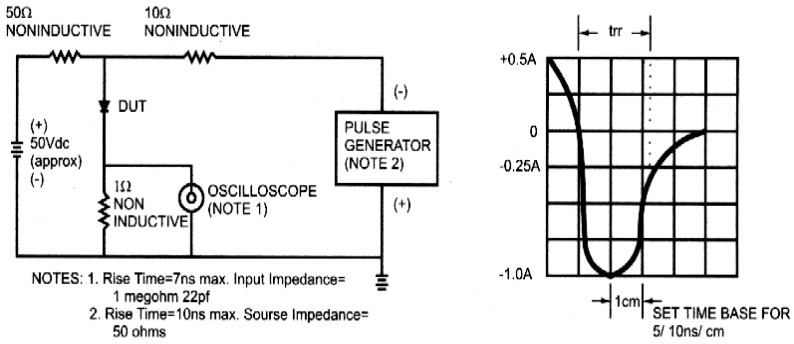

FIG.2–TYPICALFORWARD CURRENT DERATING CURVE

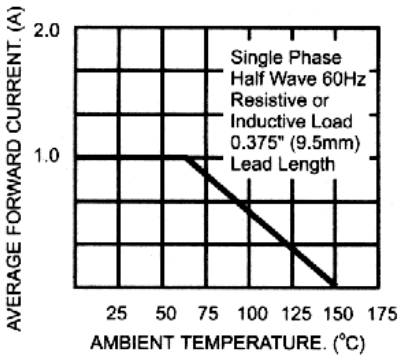

FIG. 3 – TYPICAL REVERSE CHARACTERISTIC

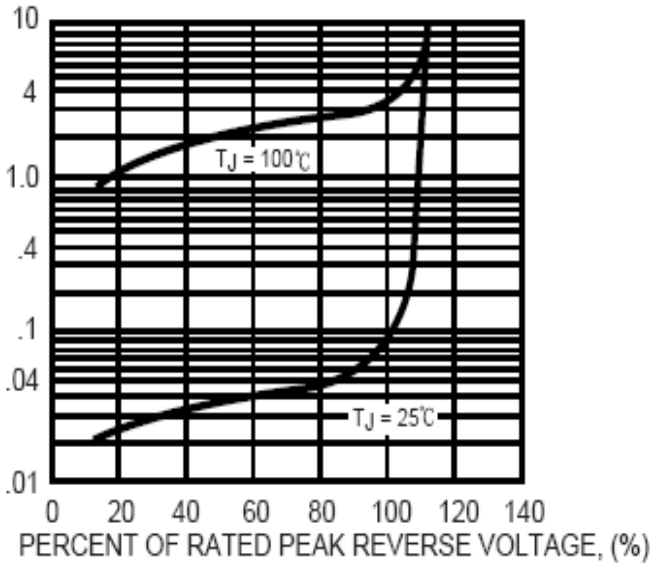

FIG. 4 – TYPICAL FORWARD CHARACTERISTICS

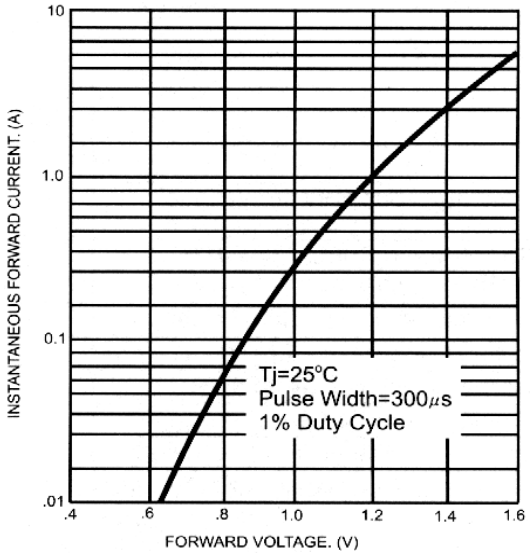

FIG. 5 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

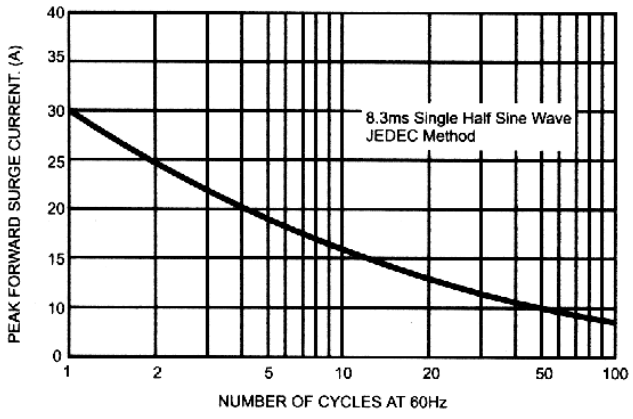

FIG. 6 – TYPICAL JUNCTION CAPACITANCE