Topdiode Manufacturing Company
Diode | Capacitors
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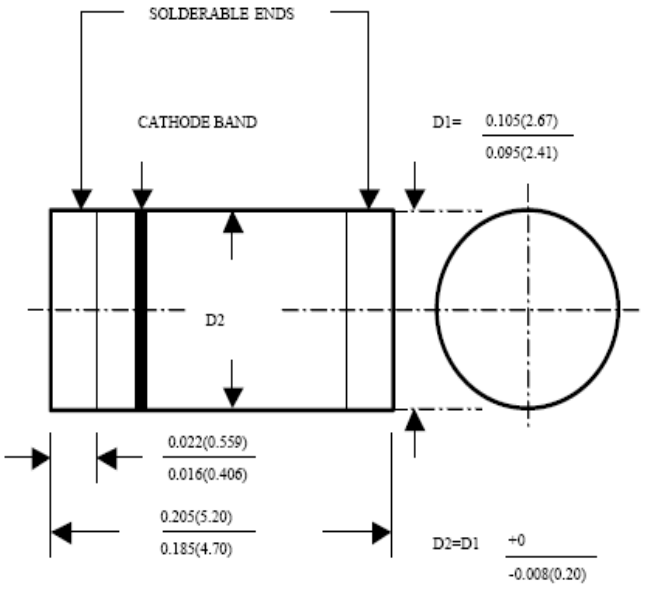
HSM101 THRU HSM108
(SUF4001 THRU SUF4007)

SURFACE MOUNT GLASS PASSIVATED HIGH EFFICIENCY RECTIFIER

FEATURES

Ideal for surface mounted applications.
Low leakage current.
Glass passivated chips.
Fast switching.
High temperature soldering guaranteed
250℃/10 seconds/.375",(9.5mm) lead length

DO-213AB / MELF



MECHANICAL DATA

Case: Molded plastic use UL94V-0 recognized flame retardant epoxy.
Terminals: Plated terminals, solderable per MIL-STD-202, method 208
Polarity: Color band on body denotes cathode.
Mounting position: Any
Weight: 0.036 gram

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	HSM 101	HSM 102	HSM 103	HSM 104	HSM 105	HSM 106	HSM 107	HSM 108	UNITS
Maximum Current Peak Reverse Voltage	VRRM	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current T_T=55℃	I(AV)	1.0								Amps
Peak Forward Surge Current Single Sine-wave on Rated Load (JEDEC Method)	IFSM	30								Amps
Maximum Instantaneous Forward Voltage Drop at 1.0A DC	VF	1.0			1.3		1.7			Volts
Maximum DC Reverse Current T_A=25℃ at Rated DC Blocking Voltage T_A=125℃	IR	5.0 100.0								μA
Maximum Reverse Recovery Time , Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A	Trr	50					75			nS
VR= 4.0V,f = 1.0MHZ Typical Junction Capacitance	CJ	15								pF
Operating Junction And Storage Temperature Range	TJ TSTG	-55 to +150								℃

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RATING AND CHARACTERISTIC CURVES HSM101 THRU HSM108

FIG. 1 – DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

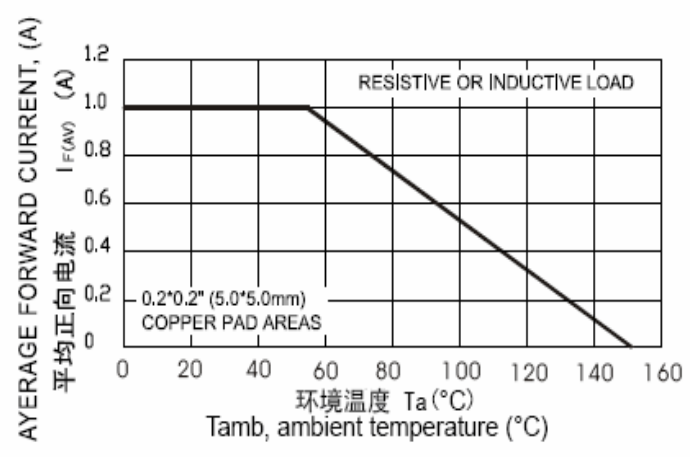

FIG. 2 – MAXIMUM NON – REPETITIVE PEAK RECTIFIER CURRENT

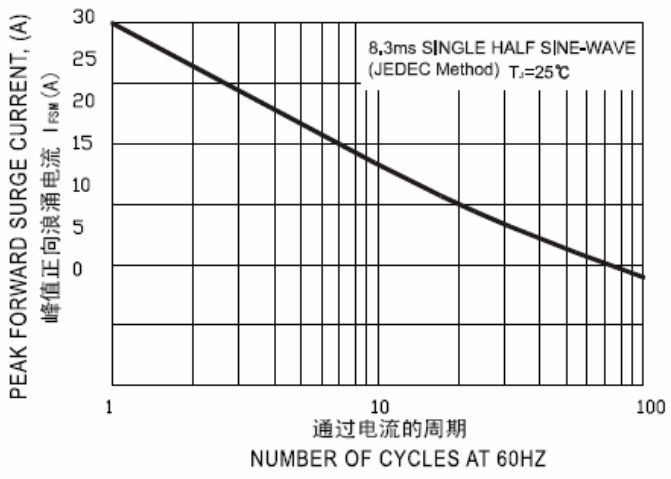

FIG. 3 –TYPICAL JUNCTION CAPACITANCE

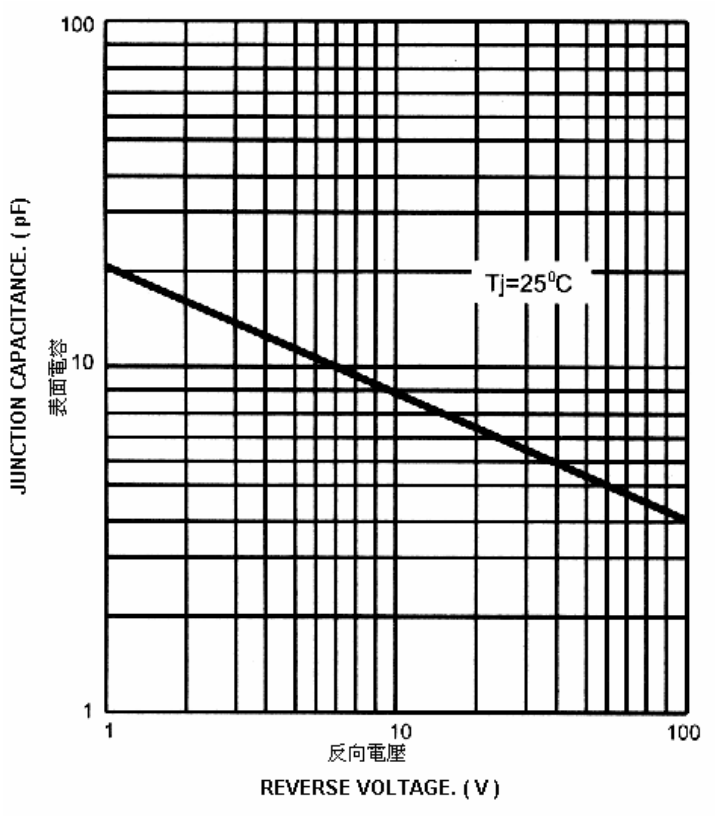

FIG. 4 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

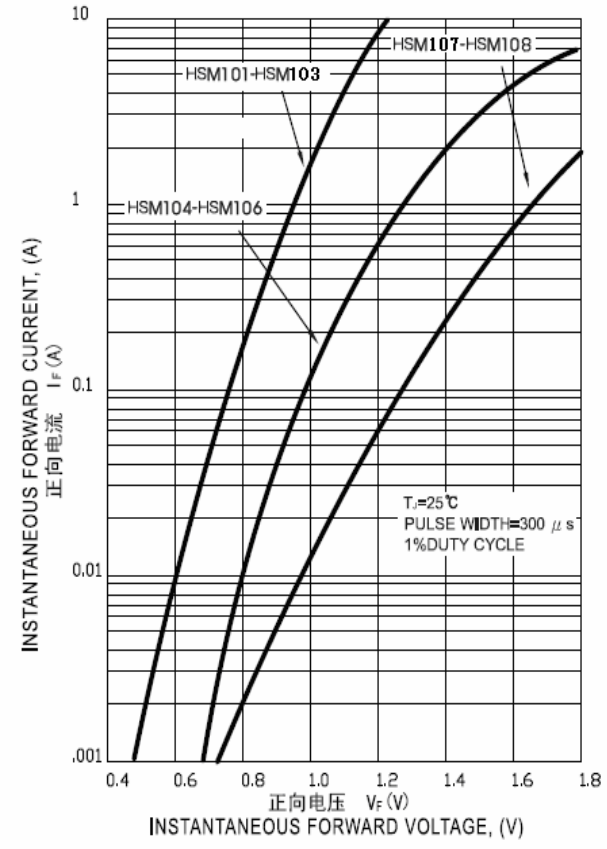

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FIG. 5 – TYPICAL REVERSE CHARACTERISTICS