

SURFACE MOUNT GLASS HIGH EFFICIENCY RECTIFIERS		REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 2.0 Amperes								
FEATURES ● Low cost ● Diffused junction ● Ultra fast switching for high efficiency ● Low reverse leakage current ● Low forward voltage drop ● High current capability ● The plastic material carries UL recognition 94V-0 MECHANICAL DATA ●Case: Molded Plastic ●Polarity:Color band denotes cathode ●Weight: 0.003 ounces,0.093 grams ●Mounting position: Any		SMB Top View Dimensions: Width: .185(4.70) / .160(4.06) Height: .155(3.94) / .130(3.30) Cathode Strip Width: .083(2.11) / .075(1.91) Side View Dimensions: Total Height: .096(2.44) / .084(2.13) Mounting Pad Height: .012(.305) / .006(.152) Mounting Pad Width: .060(1.52) / .030(0.76) Lead Length: .220(5.59) / .200(5.08) Lead Thickness: .008(.203) / .002(.051) Dimensions in inches and (millimeters)								
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS										
Rating at 25℃ ambient temperature unless otherwise specified.										
Single phase, half wave ,60Hz, resistive or inductive load.										
For capacitive load, derate current by 20%										
CHARACTERISTICS		SYMBOL	HS2A	HS2B	HS2D	HS2G	HS2J	HS2K	HS2M	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TA =50 ℃		I(AV)	2.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)		IFSM	60							A
Peak Forward Voltage at 2.0A DC(Note1)		VF	1.0			1.3	1.7			V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃		IR	5.0 100							uA
Maximum Reverse Recovery Time(Note 1)		TRR	50				75			nS
Typical Junction Capacitance (Note1)		CJ	50				30			pF
Typical Thermal Resistance (Note2)		RθJA	25							℃/W
Operating Temperature Range		TJ	-50 to +150							℃
Storage Temperature Range		TSTG	-50 to +150							℃
NOTES: 1.Measured with IF=0.5A, IR=1A , IRR=0.25A 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC 3.Thermal resistance junction to ambient										

FIG. 1 – FORWARD CURRENT DERATING CURVE

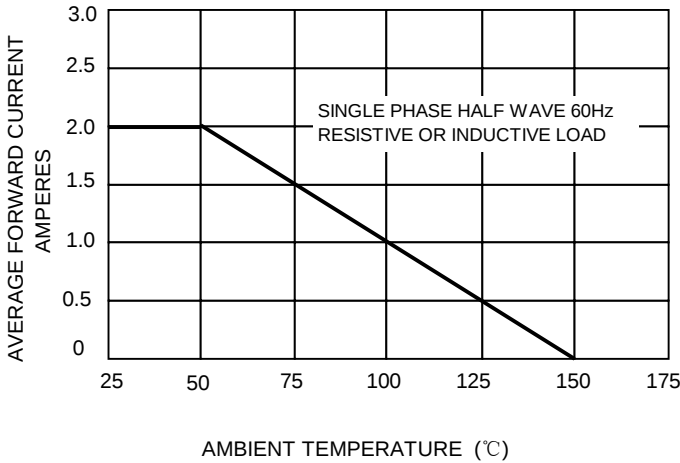


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

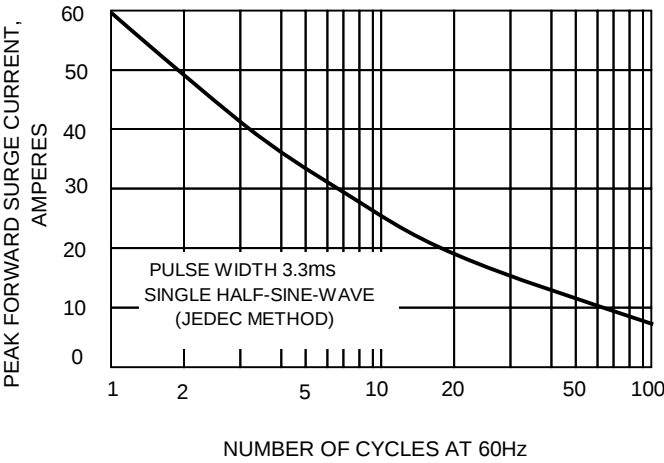


FIG.3 – TYPICAL JUNCTION CAPACITANCE

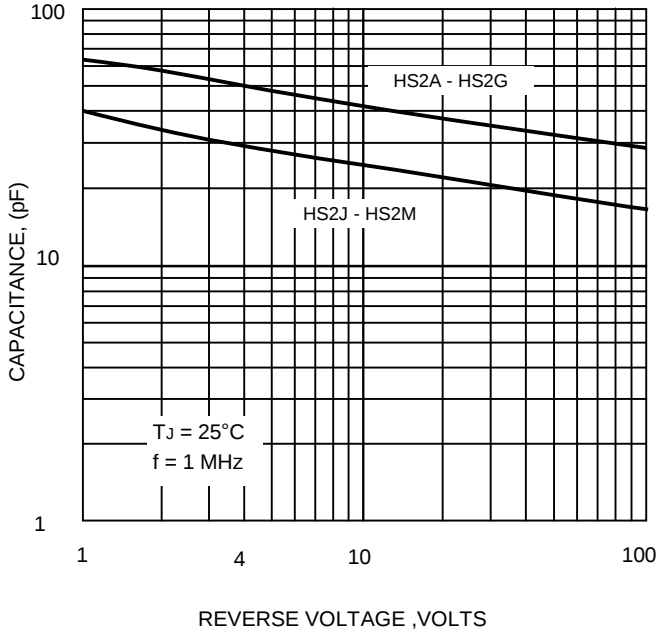


FIG.4-TYPICAL FORWARD CHARACTERISTICS

