

SURFACE MOUNT GLASS HIGH EFFICIENCY RECTIFIERS		REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 2.0 Amperes								
FEATURES <ul style="list-style-type: none">● 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 <ul style="list-style-type: none">●Case: Molded Plastic●Polarity: Indicated by cathode band●Weight: 0.002 ounces,0.064 grams●Mounting position: Any		<div>SMA</div> <p>Dimensions in inches and (millimeters)</p>								
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS										
Rating at 25°C ambient temperature unless otherwise specified.										
Single phase, half wave ,60Hz, resistive or inductive load.										
For capacitive load, derate current by 20%										
CHARACTERISTICS		SYMBOL	HS2AA	HS2BA	HS2DA	HS2GA	HS2JA	HS2KA	HS2MA	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 =55 °C		I(AV)	2.0							A
Peak Forward Surage 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°C		IR	5.0							uA
at Rated DC Blocking Voltage @TJ=100°C			100							
Maximum Reverse Recovery Time(Note 1)		TRR	50				75			nS
Typical Junction Capacitance (Note1)		CJ	50				30			pF
Typical Thermal Resistance (Note2)		RθJA	25							°C/W
Operating Temperature Range		TJ	-50 to +150							°C
Storage Temperature Range		TSTG	-50 to +150							°C
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

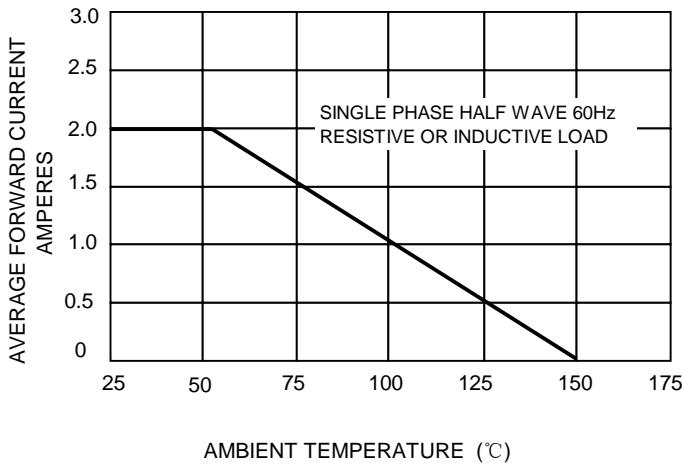


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

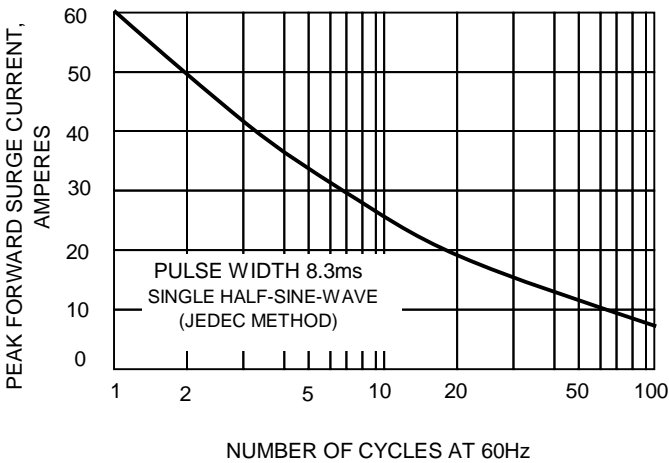


FIG.3 – TYPICAL JUNCTION CAPACITANCE

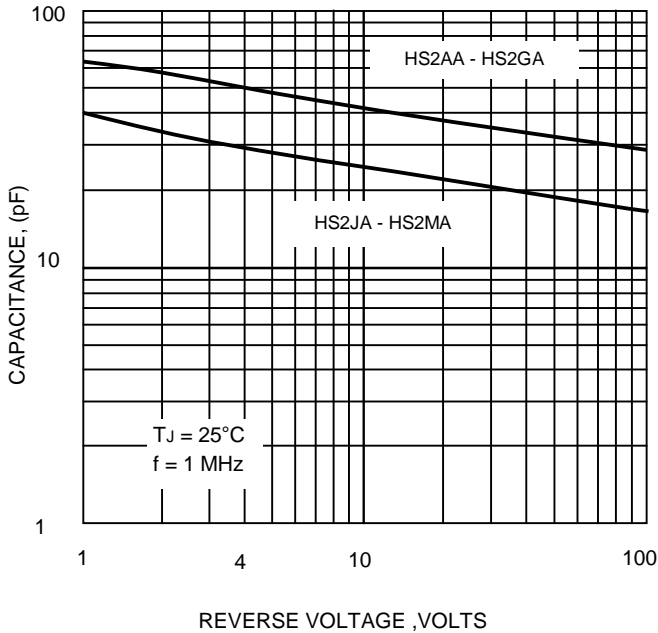


FIG.4-TYPICAL FORWARD CHARACTERISTICS

