

SURFACE MOUNT HIGH EFFICIENCY (ULTRA FAST) GLASS PASSIVATED 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: Indicated by cathode band ● Weight: 0.002 ounces,0.064 grams ● Mounting position: Any		SMA Dimensions in inches and (millimeters)							
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
		UF2AA	UF2BA	UF2DA	UF2GA	UF2JA	UF2KA	UF2MA	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A =55 °C	I _(AV)	2.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	60							A
Peak Forward Voltage at 2.0A DC	V _F	1.0			1.3	1.7			V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =100°C	I _R	5.0 100							μA
Maximum Reverse Recovery Time(Note 1)	T _{RR}	50				75			nS
Typical Junction Capacitance (Note2)	C _J	50				30			pF
Typical Thermal Resistance (Note3)	R _{θJA}	25							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C
NOTES: 1.Measured with I _F =0.5A, I _R =1A , I _{RR} =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

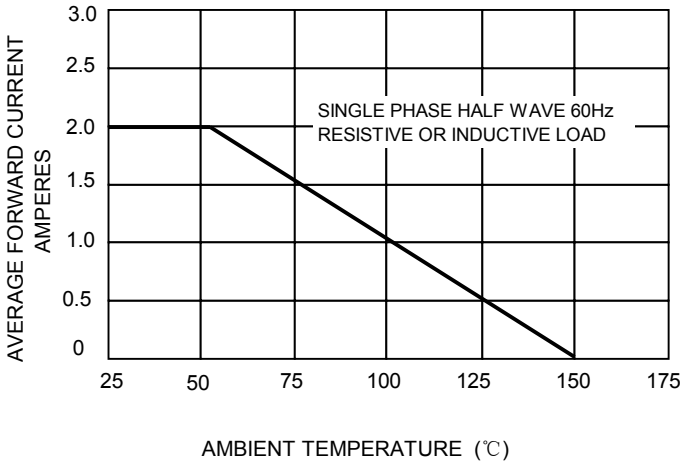


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

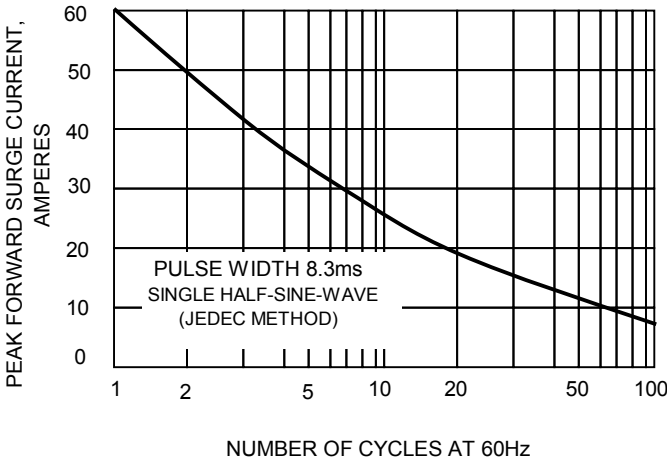


FIG.3 – TYPICAL JUNCTION CAPACITANCE

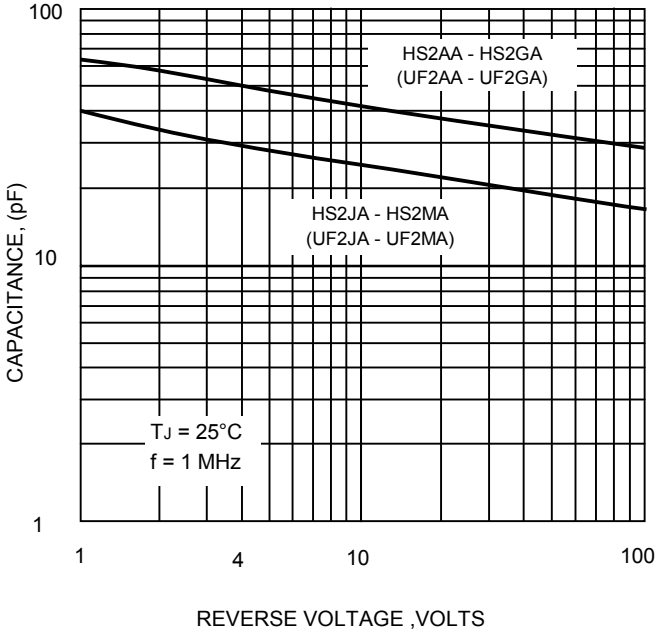


FIG.4-TYPICAL FORWARD CHARACTERISTICS

