

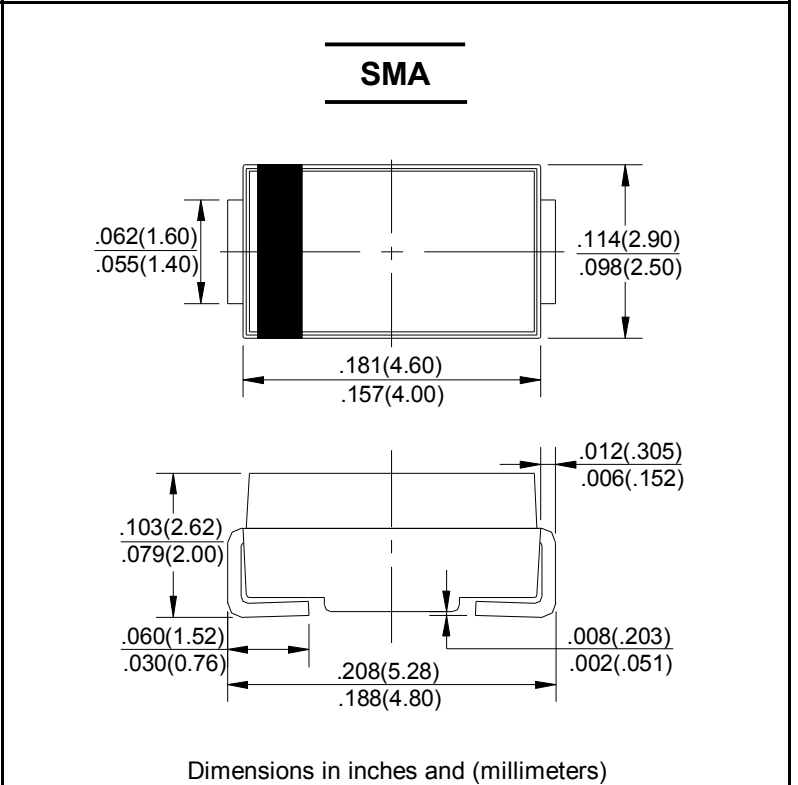
<b>SURFACE MOUNT HIGH EFFICIENCY (ULTRA FAST) GLASS PASSIVATED RECTIFIERS</b>	<b>REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.0 Ampere</b>
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**FEATURES**

- 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



**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	HS1A	HS1B	HS1D	HS1G	HS1J	HS1K	HS1M	UNIT	
		UF1A	UF1B	UF1D	UF1G	UF1J	UF1K	UF1M		
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)	1.0							A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	30							A	
Peak Forward Voltage at 1.0A DC	VF	1.0		1.3		1.7			V	
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ=25°C @TJ=100°C	IR	5.0			100				μA	
Maximum Reverse Recovery Time(Note 1)	TRR	50				75				nS
Typical Junction Capacitance (Note2)	CJ	20				10				pF
Typical Thermal Resistance (Note3)	RθJA	25								°C/W
Operating Temperature Range	TJ	-55 to +150								°C
Storage Temperature Range	TSTG	-55 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

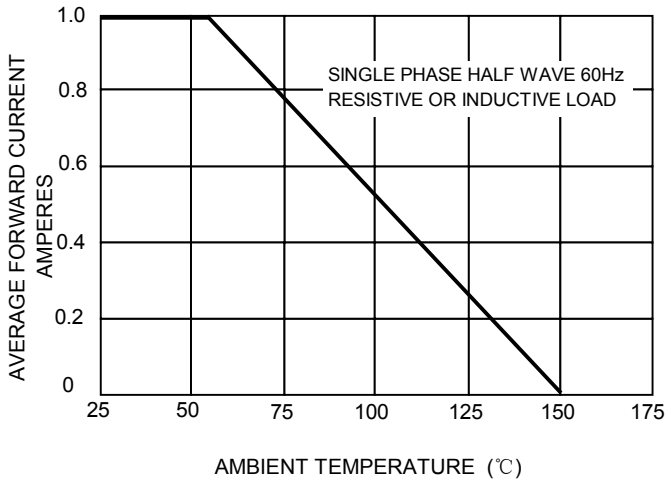


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

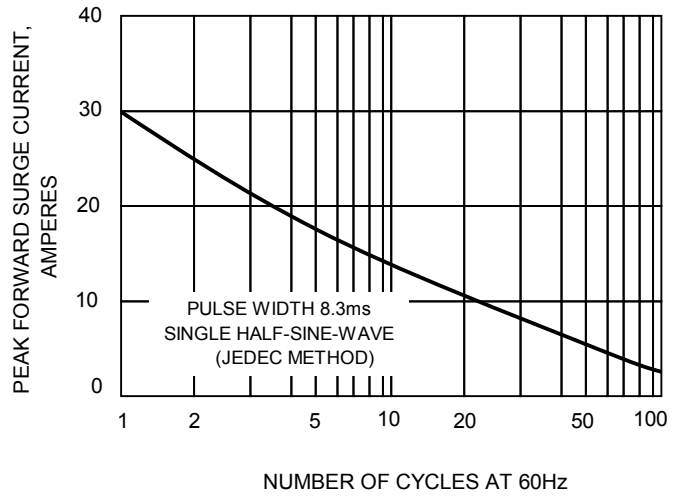


FIG.3 – TYPICAL JUNCTION CAPACITANCE

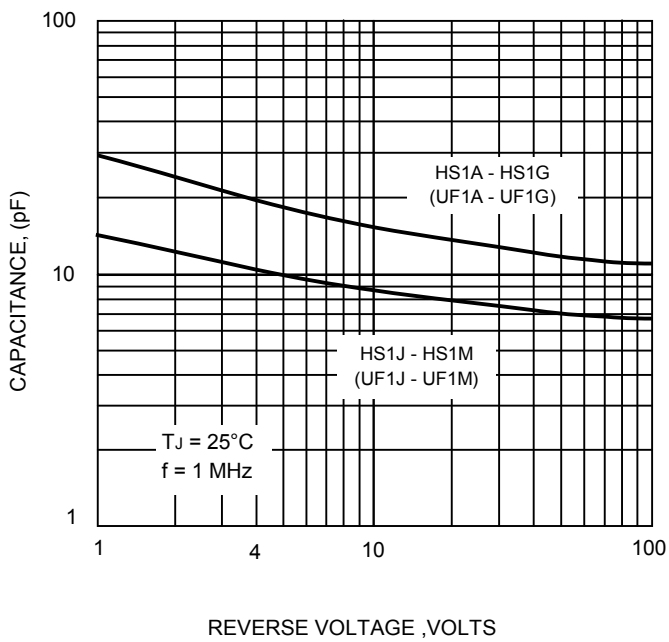


FIG.4-TYPICAL FORWARD CHARACTERISTICS

