



8A05 thru 8A10

PLASTIC SILICON RECTIFIERS		REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 8.0 Amperes								
FEATURES ● Low cost ● Diffused junction ● Low forward voltage drop ● Low reverse leakage current ● High current capability ● The plastic material carries UL recognition 94V-0 MECHANICAL DATA ● Case: JEDEC R-6 molded plastic ● Polarity: Color band denotes cathode ● Weight: 0.07 ounces , 2.1 grams ● Mounting position: Any		R - 6 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	8A05	8A1	8A2	8A4	8A6	8A8	8A10	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 =60°C		I(AV)	8.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)		IFSM	400							A
Maximum Forward Voltage at 8A DC		VF	1.0							V
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=100°C		IR	10 100							μA
Typical Junction Capacitance (Note1)		CJ	100							pF
Typical Thermal Resistance (Note2)		RθJC	8.0							°C/W
Operating Temperature Range		TJ	-55 to +125							°C
Storage Temperature Range		TSTG	-55 to +150							°C

NOTES:1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

2.Thermal resistance junction to case.



RATING AND CHARACTERISTIC CURVES
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FIG. 1 – FORWARD CURRENT DERATING CURVE

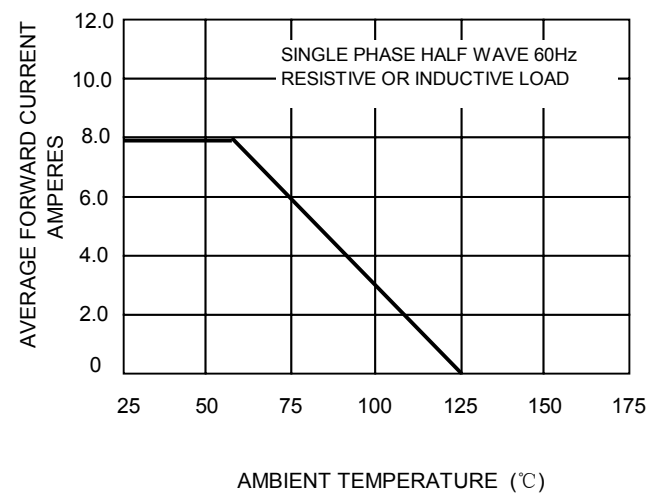


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

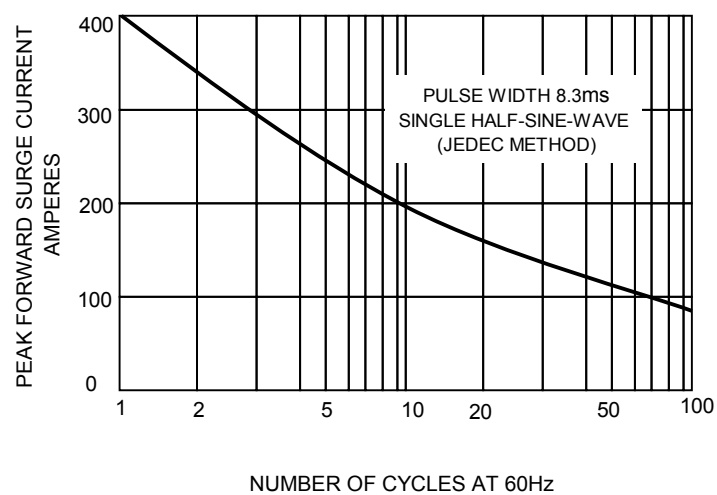


FIG.3 – TYPICAL JUNCTION CAPACITANCE

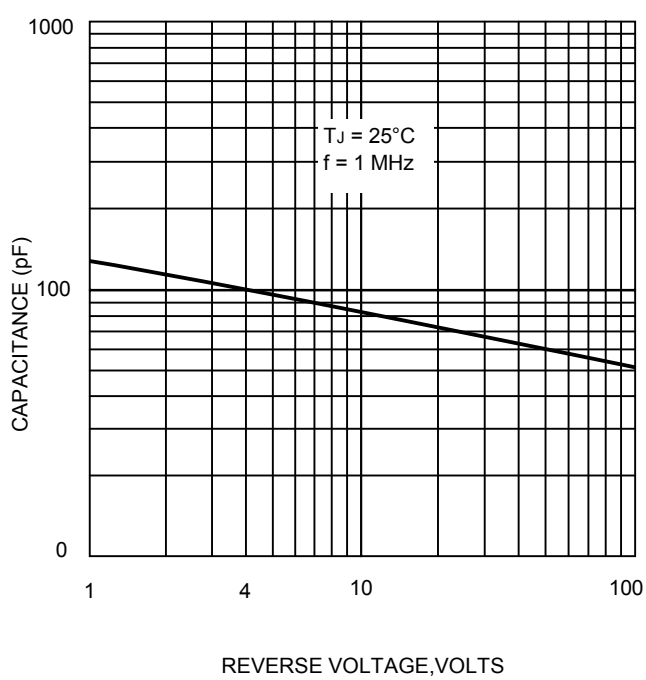


FIG.4-TYPICAL FORWARD CHARACTERISTICS

