

PLASTIC SILICON RECTIFIERS		REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.0 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 DO-41 molded plastic ●Polarity: Color band denotes cathode ●Weight: 0.012 ounces , 0.34 grams ●Mounting position :Any		DO- 41 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	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	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=75 °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
Maximum Forward Voltage at 1.0A DC		VF	1.1							V
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=100°C		IR	5.0 50							uA
Typical Junction Capacitance (Note1)		CJ	15							pF
Typical Thermal Resistance (Note2)		RθJC	26							°C/W
Operating Temperature Range		TJ	-55 to +125							°C
Storage Temperature Range		TSTG	-55 to +125							°C
NOTE:1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.										
2.Thermal resistance junction of ambient										

FIG. 1 - FORWARD CURRENT DERATING CURVE

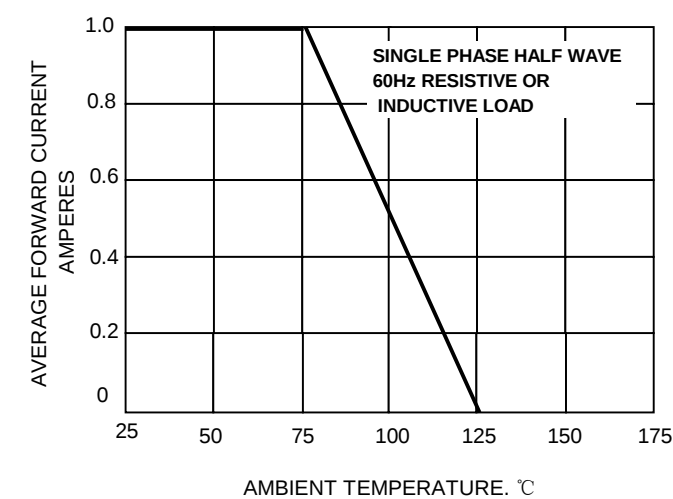


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

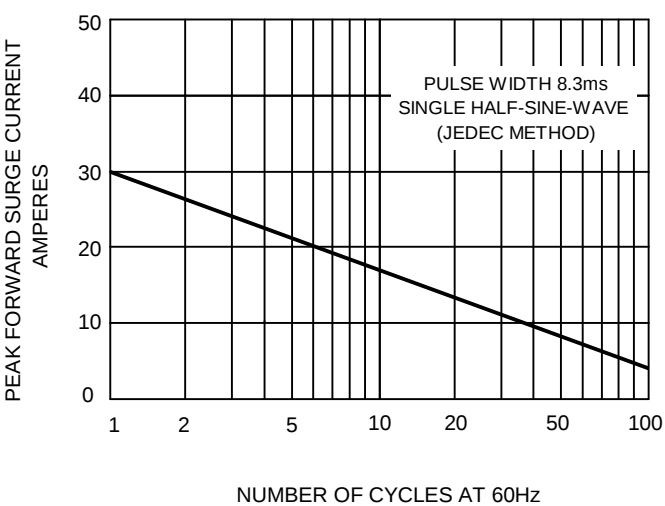


FIG. 3 – TYPICAL JUNCTION CAPACITANCE

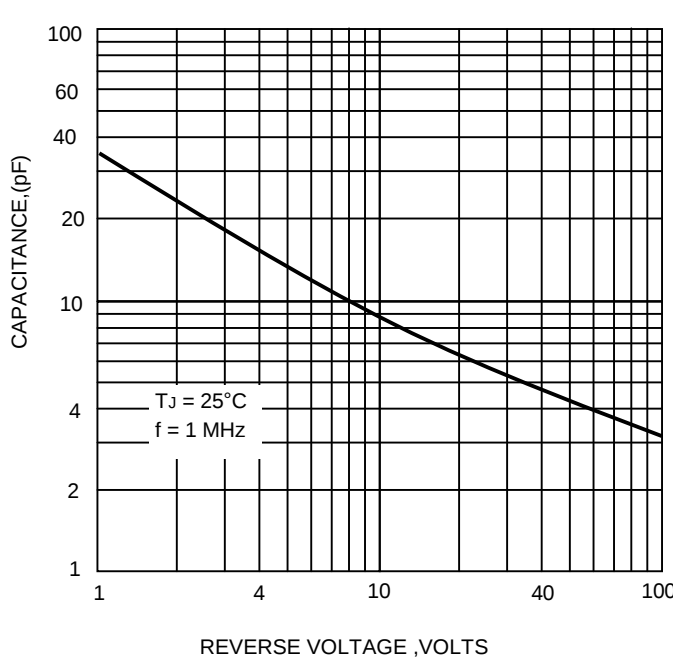


FIG.4 – TYPICAL FORWARD CHARACTERISTICS

