



FEATURES :

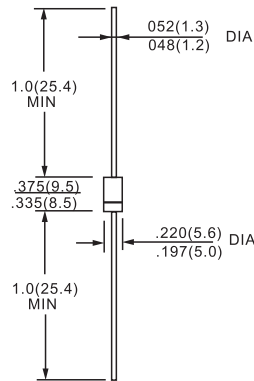
- * Glass passivated chip
- * High current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop

**GLASS PASSIVATED JUNCTION
SILICON RECTIFIERS**

DO-27

MECHANICAL DATA :

- * Case : DO-201AD Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 1.16 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25 ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	IN 5400G	IN 5401G	IN 5402G	IN 5404G	IN 5406G	IN 5407G	IN 5408G	UNIT	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts	
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts	
Maximum Average Forward Rectified Current 0.375 (9.5mm) lead length at $T_A=75$	$I_{(AV)}$	3.0							Amp	
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	125							Amps	
Maximum Instantaneous Forward Voltage at 3.0A	V_F	1.1							Volts	
Maximum DC Reverse Current at rated DC blocking Voltage at	$T_A = 25$	I_R							5.0	μA
	$T_A = 125$								50	
Maximum Full Load Reverse Current, full cycle Average 0.375(9.5mm) lead length at $T_L=75$	$I_{R(AV)}$	30							μA	
Typical Junction Capacitance (NOTE 1)	C_J	40							pF	
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	30							/W	
Operating Temperature Range	T_J	(-55 to +150)								
Storage Temperature Range	T_{STG}	(-55 to +150)								

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
2. Thermal Resistance from Junction to Ambient at 0.375 (9.5mm) lead length, P.C. board mounted.



RATING AND CHARACTERISTIC CURVES 1N5400 THRU 1N54008

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

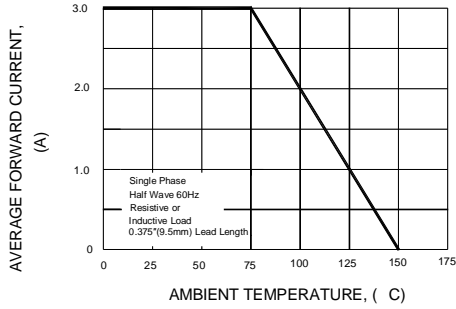


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

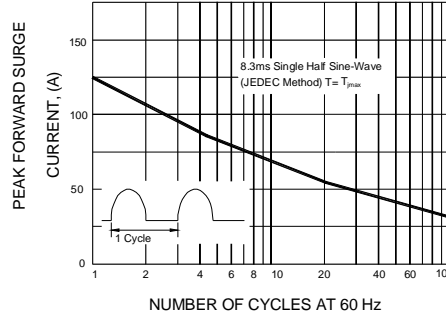


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

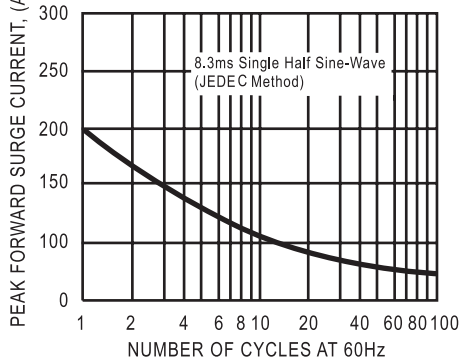


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

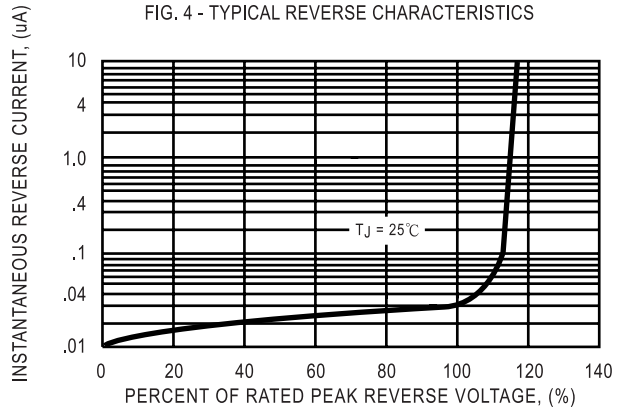


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

