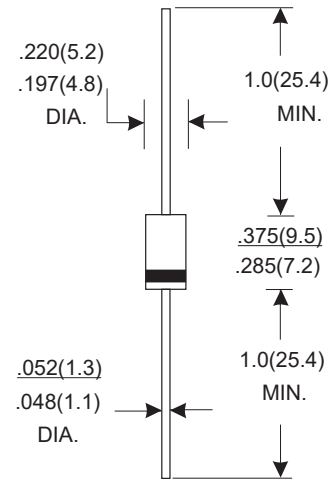
DO-27 PLASTIC SILICON RECTIFIERS

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- High surge current capability
- 3.0A poeration at TL=75℃ with no thermal runaway
- Typical IR less than 0.1 μA
- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case:JEDEC DO-27 molded plastic body
- Mounting Position:Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter		Symbols	1N 5400	1N 5401	1N 5402	1N 5403	1N 5404	1N 5405	1N 5406	1N 5407	1N 5408	Units
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC Blocking Voltage to T_A=105℃		V_{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum average forw ard rectified current 0.375"(9.5mm) lead length, @T_A=105℃		$I_{(AV)}$	3.0									Amps
Peak Forward Surge Current(8.3ms)half sine-wave cuperimposed on rated load (JEDEC method)		I_{FSM}	200									Amps
Maximum Instantaneous Forward Voltage at 3.0 A		VF	1.0									Volts
Maximum Reverse current at rated DC Blocking Voltage	T_A=25℃	I_R	2.5									uA
	T_A=100℃		50									
Typical Thermal Resistance(Note 2)		R_{JA}	40									C/W
Typical Junction Capacitance(Note 1)		C_J	50									PF
Operating and Storage Temperature Range		T_J	-55 to +125									℃
		T_{STG}										

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance from Junction to Ambient.375"(9.5mm) lead length.

RATINGS AND CHARACTERISTIC CURVES

FIG.1: FORWARD CURRENT DERATING CURVE

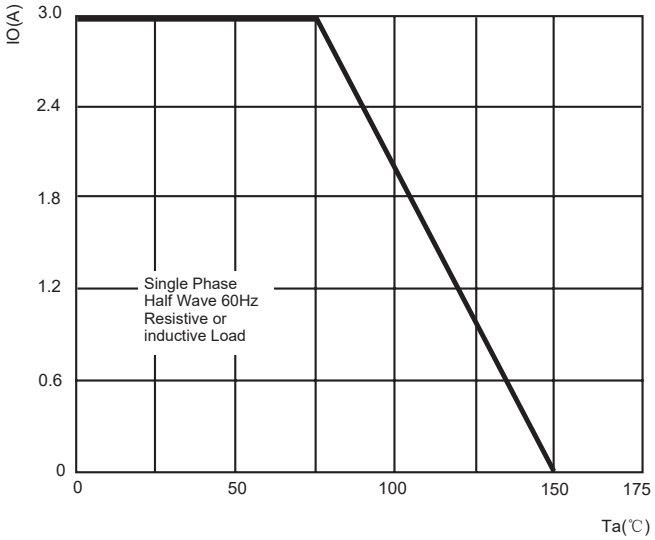


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

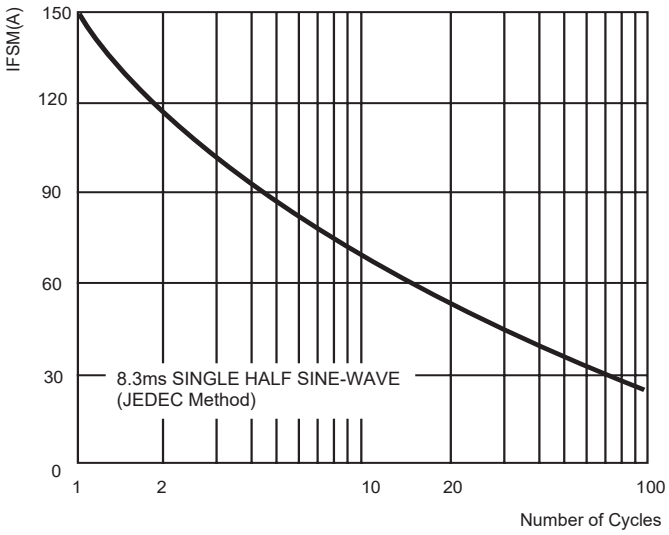


FIG.3: TYPICAL FORWARD CHARACTERISTICS

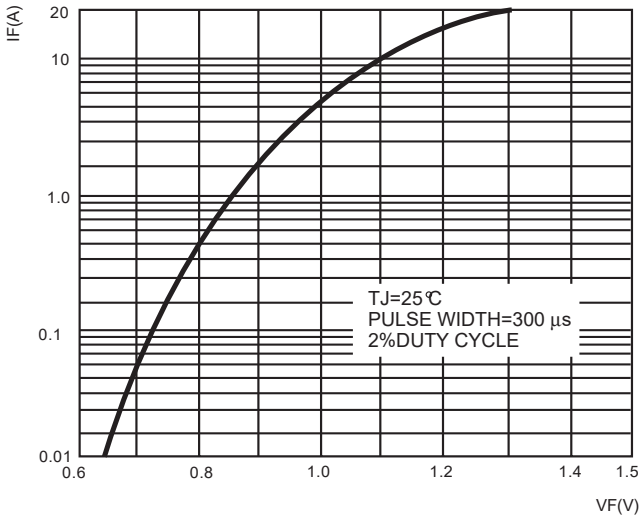


FIG.4：TYPICAL REVERSE CHARACTERISTICS