

PLASTIC SILICON RECTIFIERS

VOLTAGE RANGE: 50 --- 1000 V

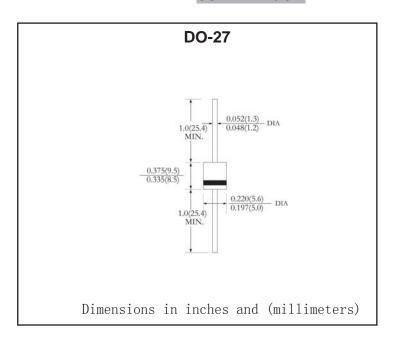
CURRENT: 3.0 A

FEATURES

- The plastic package carries Underwrites Laboratory
 Flammability Classification 94V-0
- High surge current capability
- 3.0A poeration at TL=75°C with no thermal runaway
- Typical IR less than 0.1 μA
- Component in accordance to RoHs 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- Case:JEDEC DO-15 molded plastic body
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight:0.014ounce,0.33 gram



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

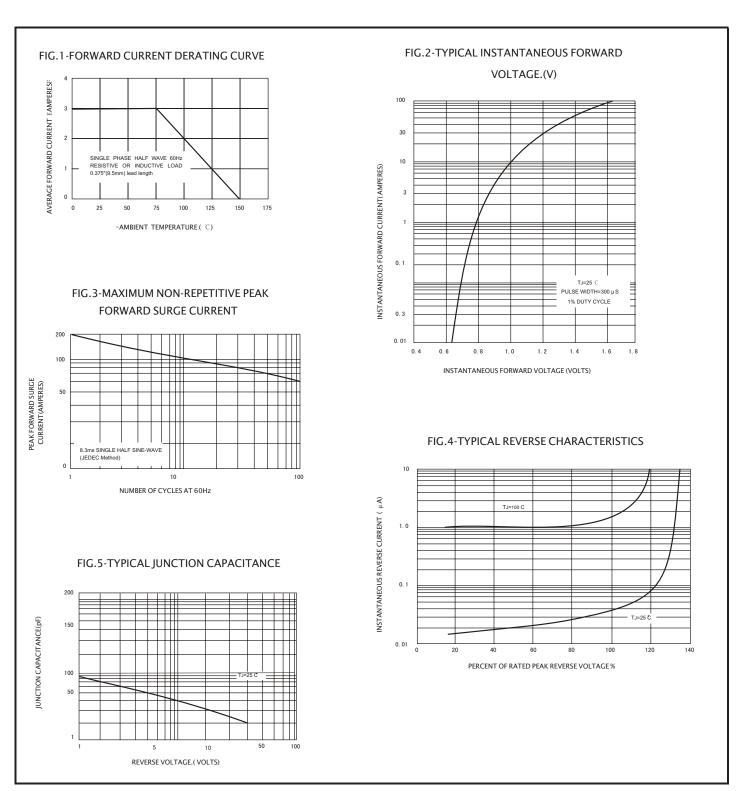
		Symbols	1N	1N	1N	1N	1N	1N	1N	1N	1N	
		Symbols	5400	5401	5402	5403	5404	5405	5406	5407	5408	Units
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC Blocking Voltage to T _A =105℃		V _{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum average forw ard rectified current		I _(AV)	3.0									Amps
0.375"(9.5mm) lead length, @T _A =105℃												
Peak Forward Surge Current(8.3ms)half sine-wave		I _{FSM}	200									Amps
cuperimposed on rated load (JEDEC method)		IFSM										
Maximum Instantaneous Forward Voltage at 3.0 A		VF	1.0								Volts	
Maximum Reverse current at rated	T _A =25 C	L		10.0							Α	
DC Blocking Voltage	T _A =100 C	I _R	100.0									^
Typical Thermal Resistance(Note 2)		R JA	40.0								C/W	
Typical Junction Capacitance(Note 1)		Сл	50.0								PF	
Operating and Storage Temperature Range		TJ	-65 to+150								${\mathbb C}$	
		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



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