

VOLTAGE RANGE: 50 --- 1000 V



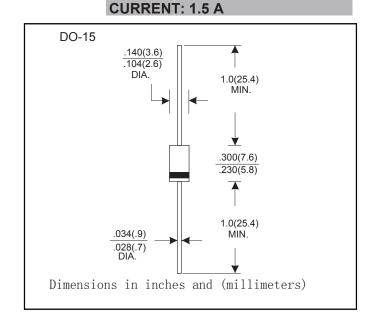
PLASTIC SILICON RECTIFIERS

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- High surge current capability
- 1.5A operation at TL=70[°]C with no thermal runaway
- Low reverse leakage
- High forward surge current capability

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%.

			1N	1N	1N	1N	1N	1N	1N	1N	1N	
		Symbols	5391	5392	5393	5394	5395	5396	5397	5398	5399	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		V _{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum average Forward Rectified Curren		I _(AV)	1.5									Amps
0.375"(9.5mm)lead length at TA=75℃												
Peak Forward Surge Current(8.3ms)half sine-wave		l	50.0									Amps
cuperimposed on rated load (JEDEC method)		I _{FSM}										
Maximum Instantaneous Forward Voltage at 1.5 A		VF	1.1								Volts	
Maximum Reverse current at rated	T _A =25 C	5.0						A				
DC Blocking Voltage	T _A =100 C	I _R	50.0									
Typical Thermal Resistance(Note 2)		R JA	60.0								C/W	
Typical Junction Capacitance(Note 1)		Сл	50.0								PF	
Operating and Storage Temperature Range		TJ	-65 to+150								С	
		T _{STG}										

^{1.}Measured at 1MHz and applied reverse voltage of 4.0V D.C.

^{2.} Thermal Resistance from Junction to Ambient. 375" (9.5 mm) lead length.



RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

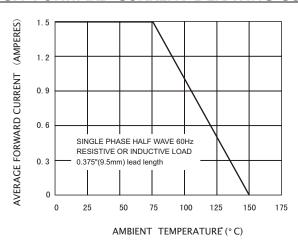


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

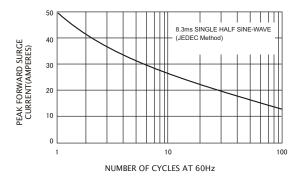


FIG.5-TYPICAL JUNCTION CAPACITANCE

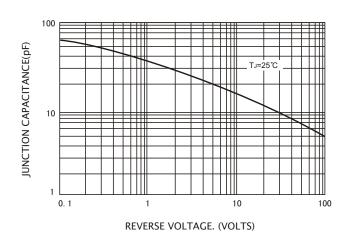


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

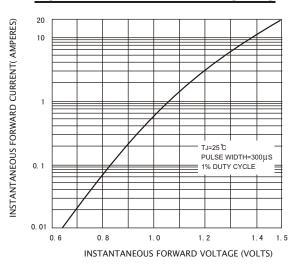
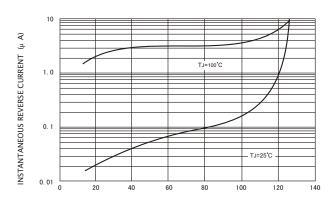


FIG.4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE %)