

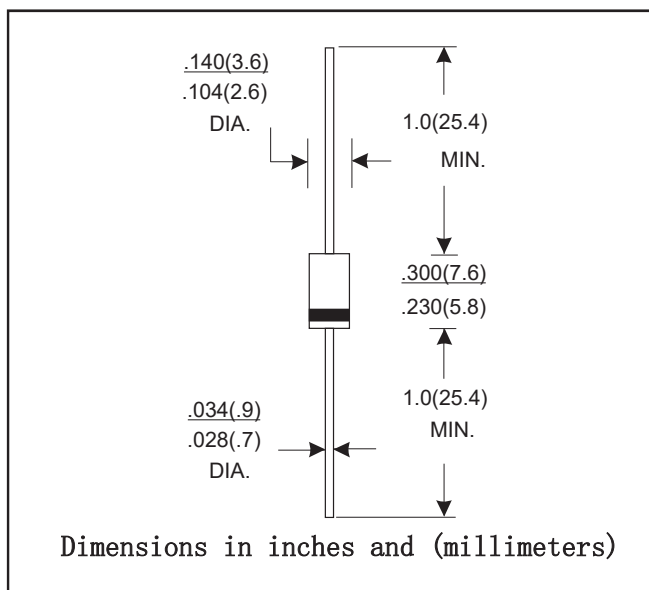
DO-15 PLASTIC SILICON RECTIFIERS

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
- Glass passivated junction

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)

Parameter		Symbols	1N 5391	1N 5392	1N 5393	1N 5394	1N 5395	1N 5396	1N 5397	1N 5398	1N 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 Current 0.375"(9.5mm)lead length at TA=75℃		I _(AV)	1.5									Amps
Peak Forward Surge Current(8.3ms)half sine-wave cuperimposed on rated load (JEDEC method)		I _{FSM}	50.0									Amps
Maximum Instantaneous Forward Voltage at 1.5 A		V _F	1.1									Volts
Maximum Reverse current at rated DC Blocking Voltage	T _A =25℃	I _R	5.0									A
	T _A =100℃		50.0									
Typical Thermal Resistance(Note 2)		R _{θJA}	60.0									C/W
Typical Junction Capacitance(Note 1)		C _J	50.0									PF
Operating and Storage Temperature Range		T _J	-65 to +150									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

FIG.1: FORWARD CURRENT DERATING CURVE

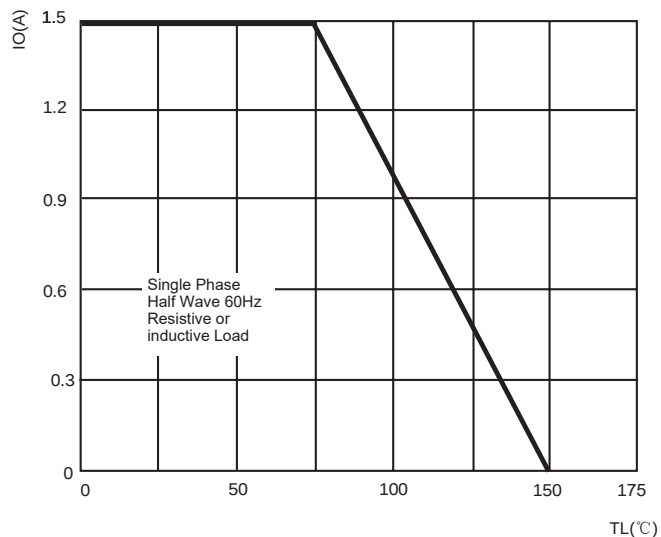


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

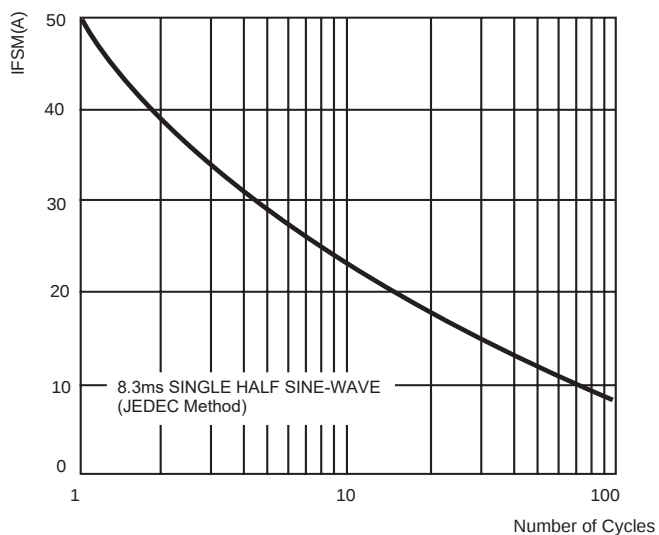


FIG.3: TYPICAL FORWARD CHARACTERISTICS

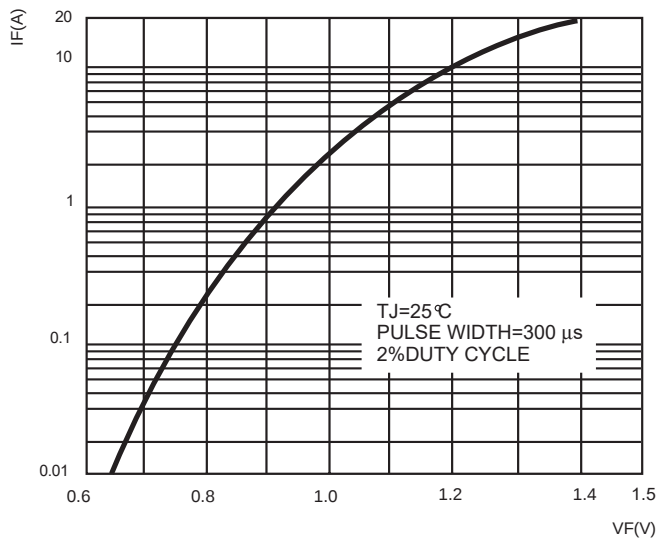


FIG.4: TYPICAL REVERSE CHARACTERISTICS

