

VOLTAGE RANGE CURRENT 50 to 1000 Volts 3.0 Ampere

RoHS

Features

- · Low forward voltage drop
- · High forward surge capability
- High reliability
- High temperature soldering guaranteed
 260°C/10 seconds,0.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

Mechanical Data

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- · Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- · Mounting position: Any
- Weight: 0.042ounce, 1.19 grams

.052(1.3) .043(1.1) DIA.

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

TYPE NUMBER		SYMB OLS	1N 5401	1N 5402	1N 5403	1N 5404	1N 5406	1N 5407	1N 5408	UNITS
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(FIG.1) 0.375"(9.5mm) lead length at T _A =100 °C		I _(AV)	3.0				Amps			
Peak Forward Surge Current 8.3mS single half sine- wave superimposed on rated load (JEDEC method)		I _{FSM}	200				Amps			
Maximum Instantaneous Forward Voltage at 3.0A		V _F	1.1				Volts			
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25℃		5.0							
	T _A = 125℃	l _R	50					- μΑ		
Typical Junction Capacitance (NOTE 1)		C	50				pF			
Typical Thermal Resistance (NOTE 2)		R _{0JA}	18			°C/W				
Operating and Storage Temperature Range		T _J ,T _{STG}	-55 to +150			$^{\circ}$				

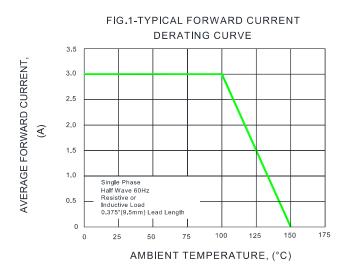
Notes:

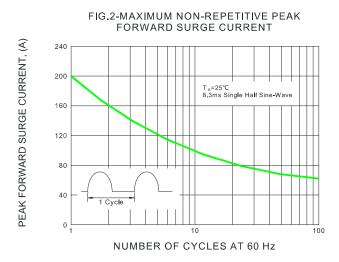
- 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- 2. Thermal Resistance from Junction to Ambient at. 375"(9.5mm)lead length, P.C. board mounted.



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Ratings and Characteristic Curves (T_A=25°C unless otherwise noted)







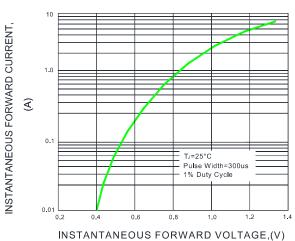
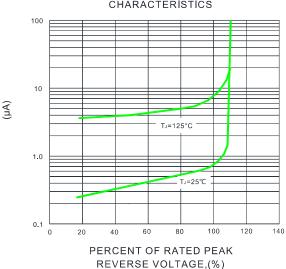
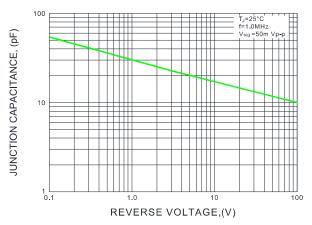


FIG.4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS REVERSE CURRENT,

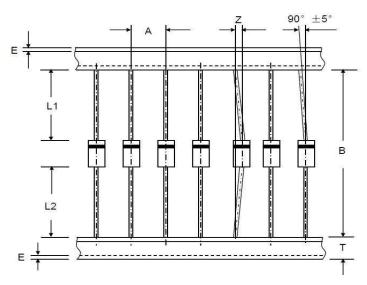
FIG.5-TYPICAL JUNCTION CAPACITANCE





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Axial Lead Taping Specifications for Rectifiers



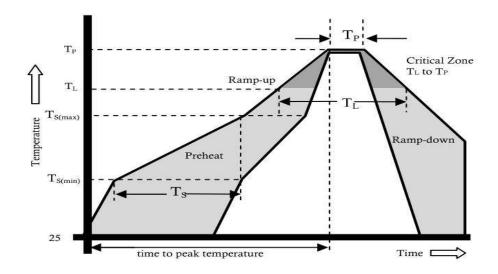
	Component Pitch A	Inner Tape Pitch B	Cumulative Tolerance	
Component Outline	±0.5mm	+0.5mm -0.4mm		
DO-201AD(DO-27)	10.0mm	52.4mm	2.0mm/20pitch	

Item	Symbol	Specifications(mm)	Specifications(inch)
Component alignment	Z	1.2 max	0.048 max
Tape width	Т	6.0±0.4	0.236±0.016
Exposed adhesive	Е	0.8 max	0.032 max
Body eccentricity	IL1-L2I	1.0 max	0.040 max



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Reflow Profile



Reflow Condition		Pb-Free Assembly		
	Temperature Min.	+150°C		
Pre Heat	Temperature Max.	+200°C		
	Time(Min to Max)	60-180 secs.		
Average ramp up rate(Liquidus Temp(TL) to peak)		3°C/sec. Max.		
TS(max) to TL - Ramp-up Rate		3°C/sec. Max.		
Reflow	Temperature (TL)(Liquidus)	+217°C		
	Temperature (TL)	60-150 secs.		
Peak Temp (TP)		+(260+0/-5)°C		
Time within 5°C of actual Peak Temp (TP)		25 secs.		
Ramp-down Rate		6°C/sec. Max.		
Time 25°C to peak Temp (TP)		8 min. Max.		
Do not exceed		+260°C		



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