

VOLTAGE RANGE CURRENT 50 to 1000 Volts 2.0 Ampere

RoHS

Features

- OJ chip junction
- Low forward voltage drop
- · Low reverse leakage
- · High forward surge current capability
- High temperature soldering guaranteed:
 260°C/10 secods,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: 0.012ounce, 0.39 grams

0.140 (3.6) 0.104(2.6) DIA. 1.0 (25.4) MIN. 0.300(7.6) 0.230(5.8) 1.0 (25.4) MIN. 1.0 (25.4)

DO-15

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

TYPE NUMBER		SYMBO LS	RL 201	RL 202	RL 203	RL 204	RL 205	RL 206	RL 207	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 =75℃		I _(AV)	2.0				Amps			
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	70				Amps			
Maximum Instantaneous Forward Voltage at 2.0A		V _F	1.1				Volts			
Maximum DC Reverse Current at Rated DC	T _A = 25℃	Incom	5.0							
Blocking Voltage	T _A = 100℃	IR(AV)	50				μA			
Typical Junction Capacitance (NOTE 1)		C ²	20				pF			
Typical Thermal Resistance (NOTE 2)		R _{θJA}	40			°C/W				
Operating and Storage Temperature Range		T _J ,T _{STG}	-55 to +150				$^{\circ}$			

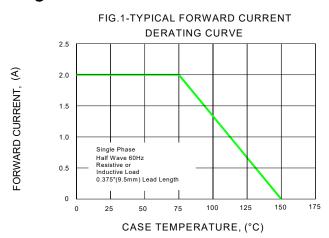
Notes:

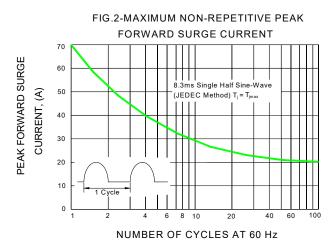
- 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- 2. Thermal Resistance from Junction to Ambient with 0.375"(9.5mm) lead length, PCB mounted.



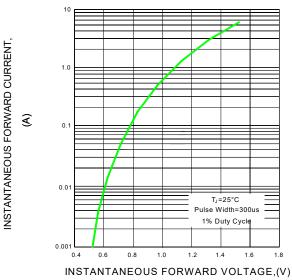
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Ratings and Characteristic Curves (TA=25°C unless otherwise noted)









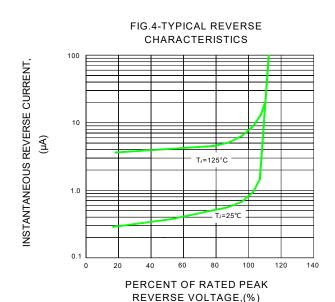
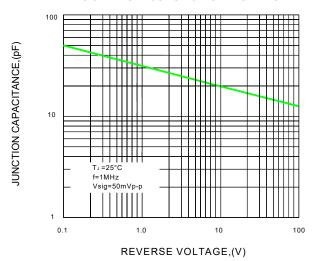


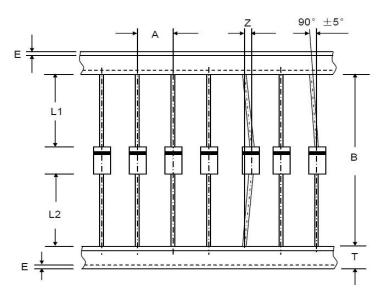
FIG.5-TYPICAL JUNCTION CAPACITANCE





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Axial Lead Taping Specifications for Rectifiers



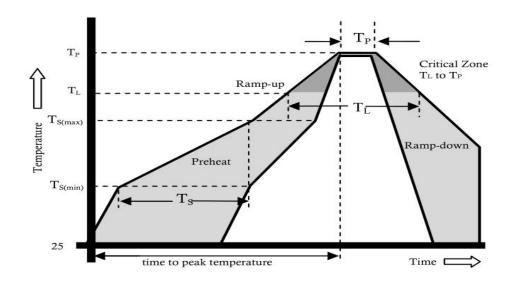
	Component Pitch A	ponent Pitch A Inner Tape Pitch		Cumulative Tolerance	
Component Outline	±0.5mm	+0.5mm -0.4mm			
DO-204AC(DO-15)	5.0mm	52.4mm	26.0mm	2.0mm/20pitch	

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(T _L) to peak)		3°C/sec. Max.		
Ts	g(max) to T∟ - Ramp-up Rate	3°C/sec. Max.		
Reflow	Temperature (T _L)(Liquidus)	+217°C		
Reliow	Temperature (T _L)	60-150 secs.		
Peak Temp (T _P)		+(260+0/-5)°C		
Time wi	thin 5°C of actual Peak Temp (T _P)	25 secs.		
Ramp-down Rate		6°C/sec. Max.		
Time 25°C to peak Temp (T _P)		8 min. Max.		
Do not exceed		+260°C		



AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

RL201 THRU RL207

VOLTAGE RANGE

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CURRENT

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