

ROHS

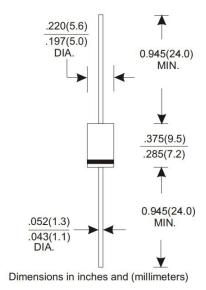
Features

- · Fast switching speed
- · Low forward voltage
- Low power high efficiency
- High surge capability
- High temperature soldering guaranteed
 250 ℃/10 seconds,0.373"(9.5mm)lead length



Mechanical Data

- · Case: Transfer molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead :Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.04ounce, 1.10 gram



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%

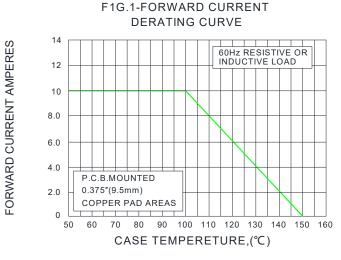
TYPE NUMBER		SYMBOLS	SR10100	UNIT		
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	100	Volts		
Maximum RMS Voltage		aximum RMS Voltage		V _{RMS}	70	Volts
Maximum DC Blocking Voltage		V _{DC}	100	Volts		
Maximum Average Forward Rectified Current at T _L see figure 1 T _L =100 °C		I _(AV)	10	Amps		
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	180	Amps		
Maximum Instantaneous Forward Voltage @ 10A (Note1)		V_{F}	0.85	Volts		
Maximum DC Reverse Current at rated DC Blocking	T _A = 25℃	l _R	0.1	mA		
Voltage per element	T _A = 100℃		2.0			
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	55	°C/W		
		$R_{ heta JL}$	12	C/VV		
Diode junction capacitance (Note 3)		Сл	270	pF		
Operating Junction Temperature		TJ	(-55 to +125)	$^{\circ}$		
Storage Temperature Range		T _{STG}	(-55 to +125)	${\mathbb C}$		

Notes:

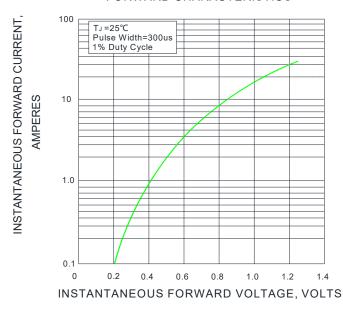
- 1. Pulse test:300µs pulse width,1% duty cycle.
- 2. Thermal Resistance from junction to Ambient at .375"(9.5mm)lead length, P.C.board mounted.
- f=1MHz and applied 4V DC reverse voltage.

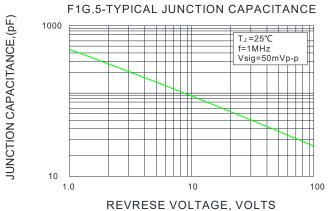


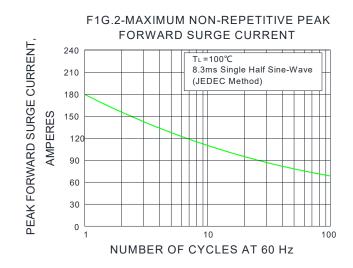
Ratings and Characteristic Curves (T_A=25°C unless otherwise noted)

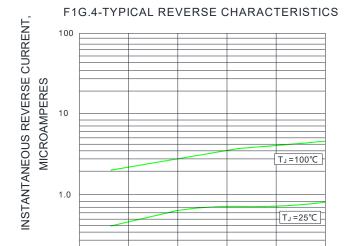


F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS









PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

100

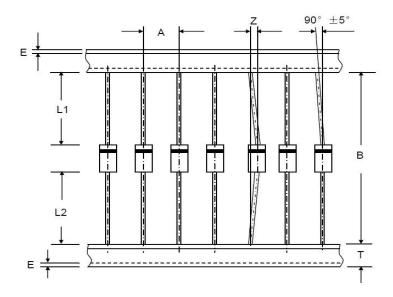
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0.

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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	

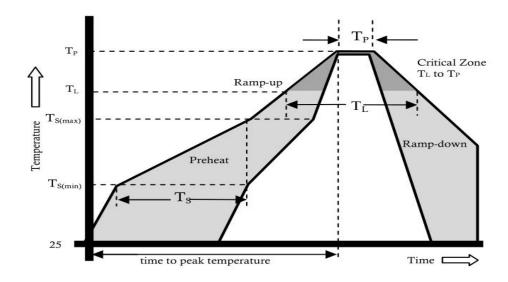
Item	Symbol	Specifications(mm)	Specifications(inch)
Component alignment	Z	1.2 max	0.048 max
Tape width	Т	6.0±0.4	0.236±0.016
Exposed adhesive	E	0.8 max	0.032 max
Body eccentricity	IL1-L2I	1.0 max	0.040 max



SR10100 VOLTAGE RANGE CURRENT

AGE RANGE 100 Volts
ENT 10 Ampere

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.	
T _S (max) to T _L - Ramp-up Rate		3°C/sec. Max.	
Reflow	Temperature (T _∟)(Liquidus)	+217°C	
	Temperature (T∟)	60-150 secs.	
Peak Temp (T _P)		+(260+0/-5)°C	
Time within 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	



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