SR220 THRU SR2A0

SCHOTTKY BARRIER RECTIFIER

FEATURES:

- Plastic package has Underwriters Laboratary Flammability Classification 94V-0
- Guard ring for overvoltage protection
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering: 250°C/10 second at terminals,0.375:(9.5mm)lead length,5lbs,(2.3kg)tension

MECHANICAL DATA

Case: JEDEC DO-15 molded plastic

Terminals: Plated axial lead, solderable per

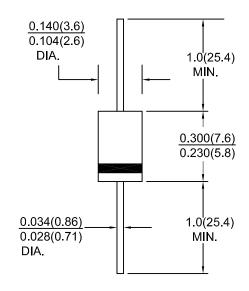
MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Standard Packaging: Any

Weight: 0.014 ounces, 0.039 grams

DO-204AC(DO-15)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	SR 220	SR 230	SR 240	SR 250	SR 260	SR 280	SR 2A0	Units
Maximum recurrent peak reverse voltage	VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	Volts
Maximum DC voltage	VDC	20	30	40	50	60	80	100	Volts
Maximum average forward rectified current at T $_{L}$ =75 $^{\circ}$ C	l(AV)	2.0							Amps
Peak forward surge current, 8.3 ms single half sine-wave auperimposed on rated load (JEDEC Methed)	FSM	50							Amps
Maximum instantaneous forward voltage drop at 2.0A(NOTE 1)	v _F	0.55			0.70		0.85		Volts
Maximum Instantaneous reverse current at rated DC blocking voltage (NOTE 1) $Ta=25^{\circ}C$	1_	1.0 10						m A	
Typical thermal resistance (NOTE 3)	Rth JA		35.0						
Operating Junction temperature range	TJ	-55 to+125					$^{\circ}$		
Storage temperature range	Tstg	-55 to+150							$^{\circ}$

NOTE: 1.Pulse test: 300us width, 1% duty cycle:

2. Measured at 1 MHZ and applied reverse voltage of 4.0 volTS

3..Thermal resistance from Junction to lead .and/or to ambient P.C.B mounted with 0.375"(9.5mm) lead length with 1.5X1.5"(38X38mm)copper pads

