SR120 THRU SR1A0

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-41 molded plastic

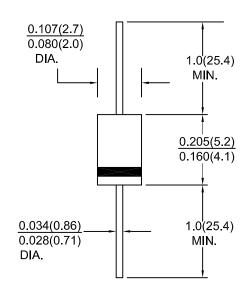
Terminals: Plated axial lead, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Standard Packaging: Any

Weight: 0.012 ounces, 0.033 grams

DO-204AL(DO-41)



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 120	SR 130	SR 140	SR 150	SR 160	SR 180	SR 1A0	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 0.375"(9.5mm) lead length(See fig.1		l(AV)	1.0							Amps
Peak forward surge current, 8.3 ms single half sine-wave auperimposed on rated load (JEDEC Methed)		I _{FSM}	30							Amps
Maximum instantaneous forward voltage drop per leg at 1.0A (NOTE 1)		v _F		0.55 0.70 0			0.	85	Volts	
10 voice canoin ai laica be	a=25°C a=100°C	۱ _R	0.5 I _R 10							m A
Typical thermal resistance (NOTE 3)		Rth JA Rth JL		50.0 15.0						
Operating Junction temperature range		TJ	-	-55 to+125 -55 to+150						${\mathbb C}$
Operating Junction and storage temperature range		Tstg	-55 to+150						$^{\circ}$	
			-00 10 + 100							

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



