

Features

- Low power loss ,high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Guarding for over voltage protection
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

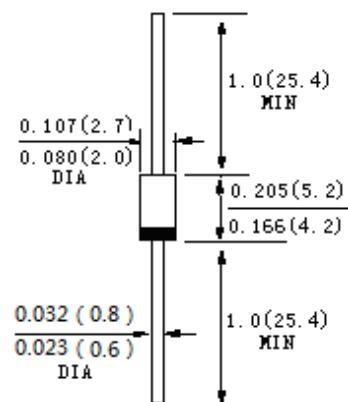
Mechanical Data

Case: DO-41 Molded plastic

Polarity: Color band denotes cathode end

Lead: Pure tin plated, lead free

DO-41



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

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

For capacitive load, derate current by 20%

TYPE NUMBER	Symbols	SR120	SR130	SR140	SR150	SR160	SR180	SR1100	Units				
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	V				
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	V				
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	V				
Maximum average forward rectified current 9.5mm lead length (See fig. 1)	I _{F(AV)}	1.0							A				
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30							A				
Maximum instantaneous forward voltage at 1.0A	V _F	0.55		0.7		0.85		V					
Maximum instantaneous reverse current at rated DC blocking voltage Ta=25°C Ta=100°C	I _R	0.5 10							mA				
Operating junction temperature range	T _J	-55 to +150							°C				
Storage temperature range	T _{stg}	-55 to +150							°C				

Characteristic Curves

