Schottky Barrier Rectifiers



Metal-semiconductor junction with gard ring

For use in low vlotage, high frequency inverters, free wheeling

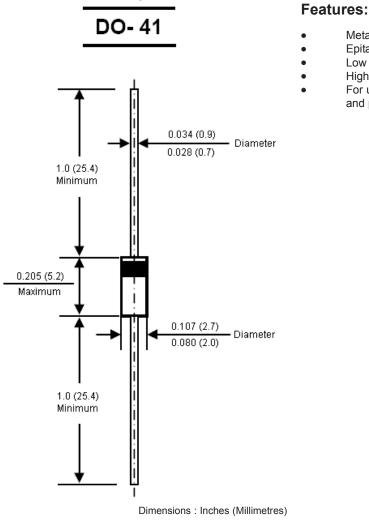
Epitaxial construction

High current capability

Low forward voltage drop

and polarity protection applications

Reverse Voltage - 20 to 100 Volts Forward Current - 1.0 Amperes



Mechanical Data:

Case	: JEDEC DO-41 moulded plastic
Polarity	: Colour band denotes cathode
Weight	: 0.012 ounces, 0.34 grams
Mounting position	: Any

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

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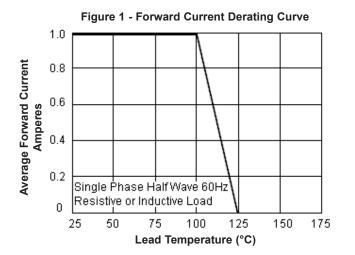
Characteristics	Symbol	SR150	SR160	SR1100	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50 60 100		100	V
Maximum RMS Voltage	V _{RMS}	35	42	70	V
Maximum DC Blocking Voltage	V _{DC}	50	60	100	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Lengths @T _L =100°C	I _(AV)	1.0			A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	40			A
Peak Forward Voltage at 1.0A DC	V _F	0.7 0.85		0.85	V
Maximum DC Reverse Current@T_J=25°Cat Rated DC Blocking Voltage@T_J=100°C	lr –	1.0		— mA	
		10			
Typical Junction Capacitance (Note1)	CJ	80		pF	
Typical Thermal Resistance (Note2)	Rejl	15			°C/W
Operating Temperature Range	TJ	-55 to +125			°C
Storage Temperature Range	T _{STG}	-55 to +150			°C

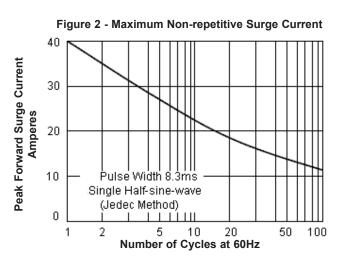
Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance junction to lead.

Rating and Characteristic Curves





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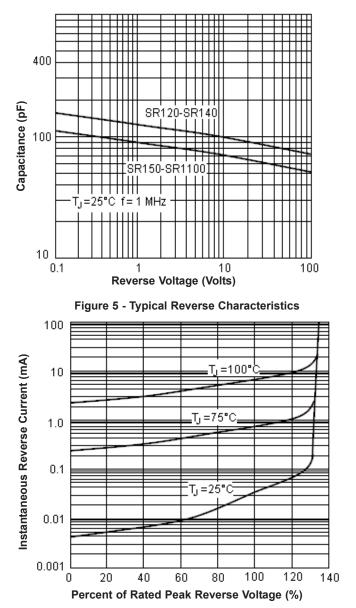


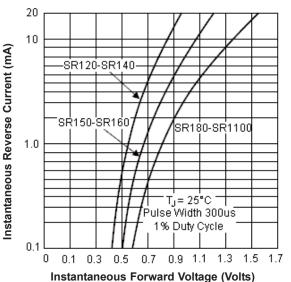
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multicomp





Part Number Table

Description	Part Number	
Schottky Barrier Rectifiers	SR1100	
Schottky Barrier Rectifiers	SR150	
Schottky Barrier Rectifiers	SR160	

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