multicomp PRO



Features:

- · Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data:

Case	: JEDEC DO-41 molded plastic
Polarity	: Colour band denotes cathode
Weight	: 0.012 ounces, 0.34 grams
Mounting Position	: Any
Reverse Voltage	: 40 to 60 Volts
Forward Current	: 1 Ampere

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%.

Characteristics	Symbol	SR140	SR160	Unit	
Max. Recurrent Peak Reverse Voltage	Vrrm	40	60		
Max. RMS Voltage	Vrms	28	42		
Max. DC Blocking Voltage	VDC	40	60	7	
Max. Average Forward Rectified Current0.375" (9.5mm) Lead Lengths@TL = 100°C	l(AV)	1.0		A	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	Іғѕм	30			
Peak Forward Voltage at 1A DC	VF	0.55	0.7	V	
Max. DC Reverse Current at $T_J = 25^{\circ}C$ Rated DC Blocking Voltage at $T_J = 100^{\circ}C$	IR	1 10		mA	
Typical Junction Capacitance (Note 1)	CJ	110	80	pF	
Typical Thermal Resistance (Note 2)	Rejl	15		°C/W	
Operating Temperature Range	TJ	-55 to +150 °C		•	
Storage Temperature Range	Tstg				

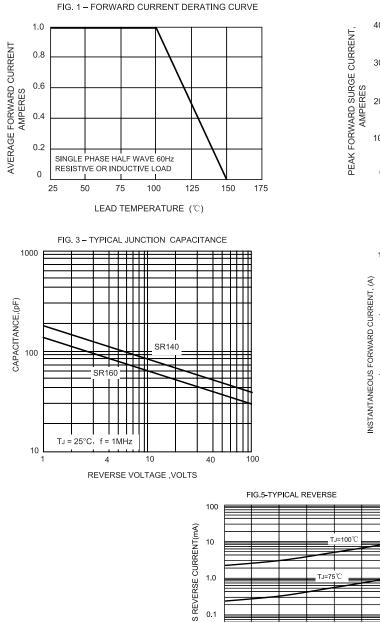
Notes:

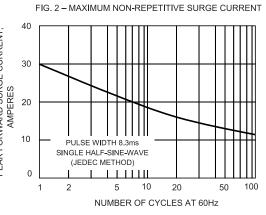
- 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 2. Thermal resistance junction to lead
- 3. The typical data above is for reference only

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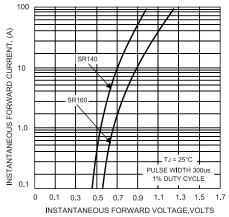


Ratings and Characteristic Curves









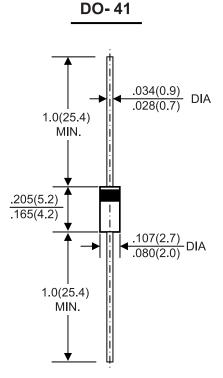
INSTANTANEOUS REVERSE CURRENT(mA) T.I=25 0.01 0.001 20 40 60 80 100 120 140 0 PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

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Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number	
Schottky Barrier Rectifier, 1A 40V, DO-41	SR140	
Schottky Barrier Rectifier, 1A 60V, DO-41	SR160	

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