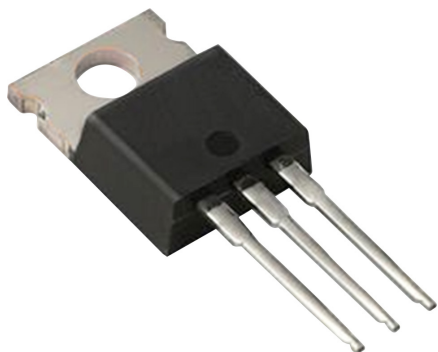


Schottky Diode



RoHS
Compliant



Features:

- Low power loss, high efficiency
- High current capability, Low V_F
- High reliability
- High surge current capability
- Epitaxial construction
- Guard-ring for transient protection
- For use in low voltage, high frequency inverter, free wheeling, and polarity protection application

Specifications:

Mechanical Data:

Cases	: TO-220AB moulded plastic
Terminals	: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
Polarity	: As marked
High temperature soldering guaranteed	: 260°C/10 seconds/0.25", (6.35mm) from case
Weight	: 2.24g

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%.

Parameters	Symbol	SR10100	SR10150	SR1060	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	150	60	V
Maximum RMS Voltage	V _{RMS}	70	105	42	
Maximum DC Blocking Voltage	V _{DC}	100	150	60	
Maximum Average Forward Rectified Current	I _(AV)	10			A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	120			

Schottky Diode

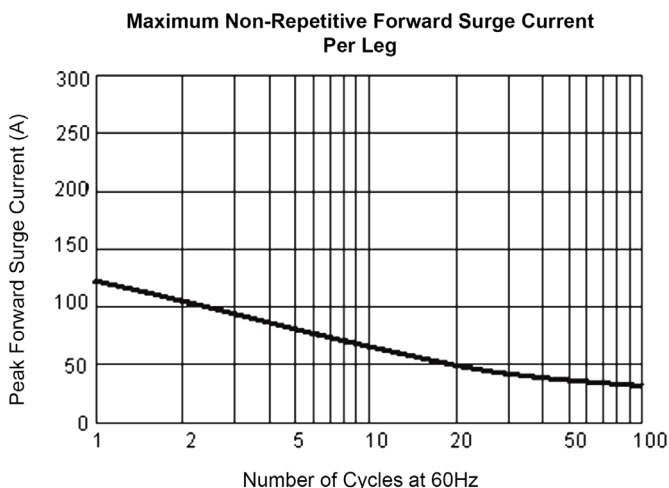
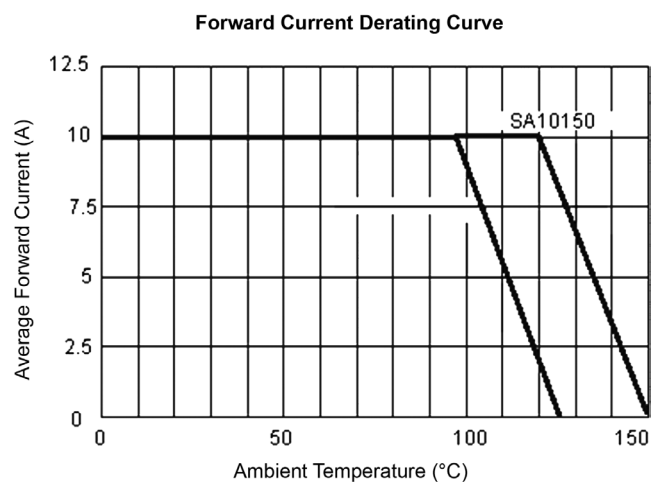


Parameters	Symbol	SR10100	SR10150	SR1060	Units
Maximum Instantaneous Forward Voltage at 5A	V _F	0.85	0.95	0.7	V
Maximum DC Reverse Current at T _A = 25°C at Rated DC Blocking Voltage at T _A = 100°C	I _R	0.1	0.5		μA
		5	10		μA
Typical Junction Capacitance (Note 2)	C _j	310			pF
Typical Thermal Resistance (Note 1)	R _{θJC}	3			°C/W
Operating Junction Temperature Range	T _J	-65 to +125	-65 to +150		°C
Storage Temperature Range	T _{STG}	-65 to +150			

Notes:

1. Thermal Resistance from Junction to Case Per Leg, Mounted on Heatsink size of 2" x 3" x 0.25" Al-Plate.
2. Measured at 1MHz and Applied Reverse Voltage of 4V DC.

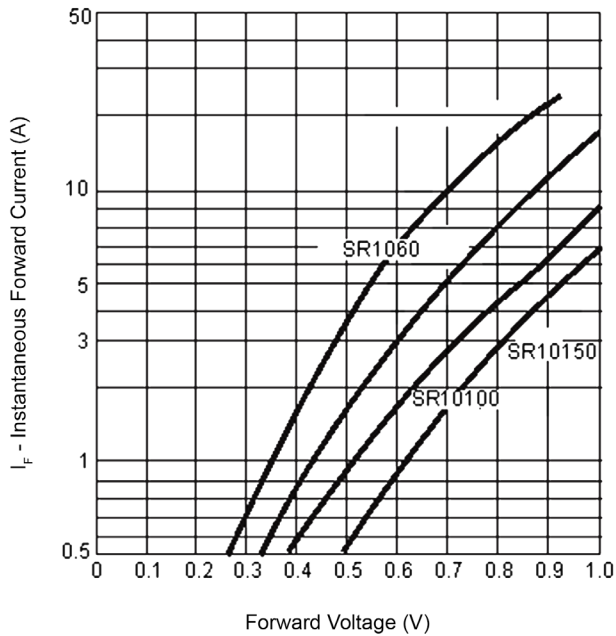
Ratings and Characteristic Curves



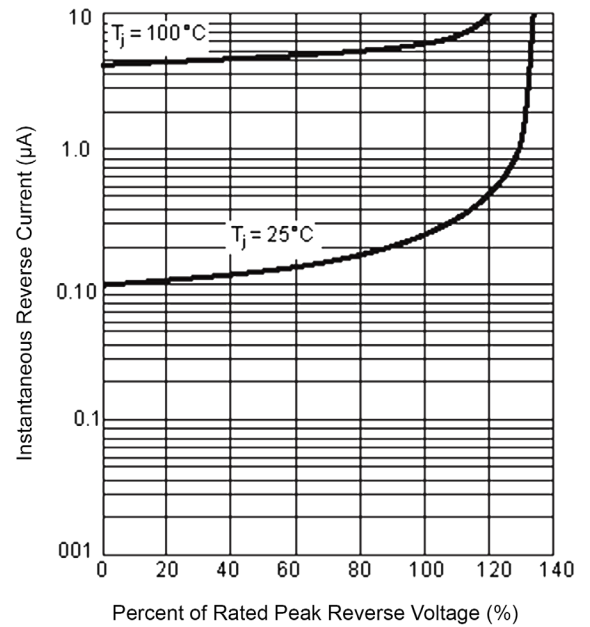
Schottky Diode



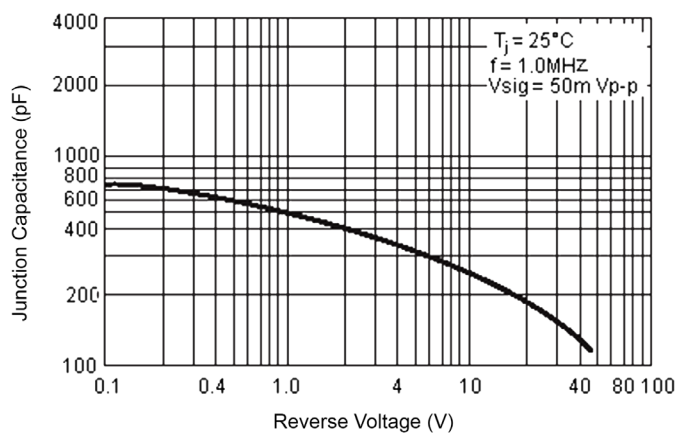
Typical Forward Characteristics Per Leg



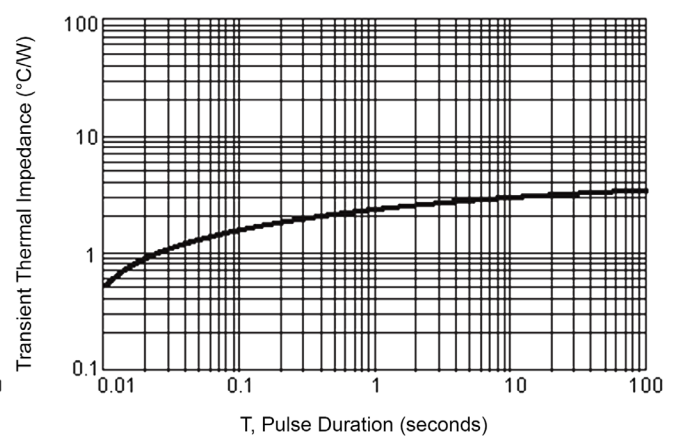
Typical Reverse Characteristics Per Leg



Typical Junction Capacitance Per Leg



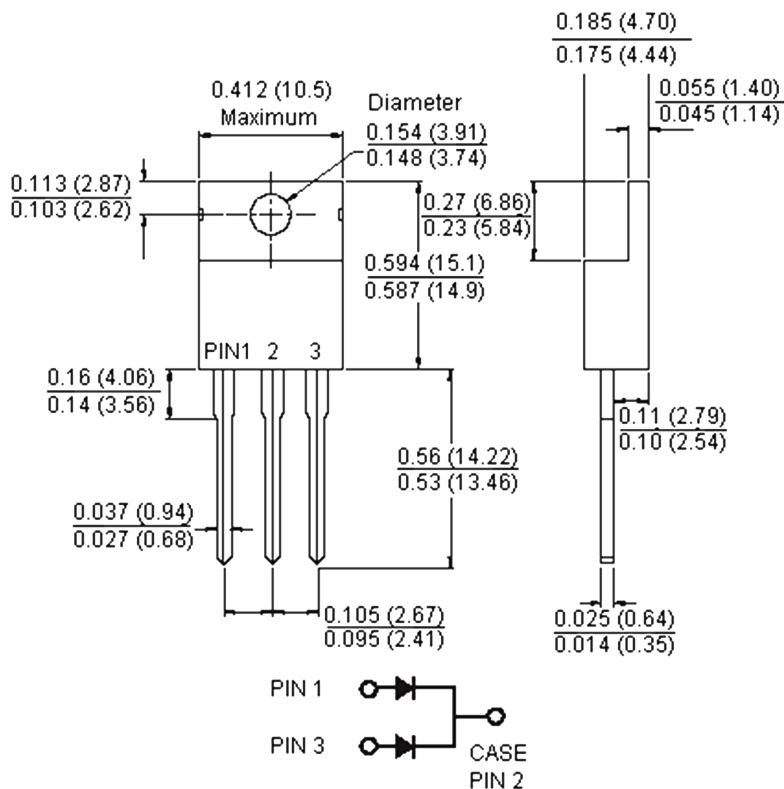
Typical Transient Thermal Impedance Per Leg



Schottky Diode



TO-220AB



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Diode, Schottky, 10A, 100V	SR10100
Diode, Schottky, 10A, 150V	SR10150
Diode, Schottky, 10A, 60V	SR1060

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