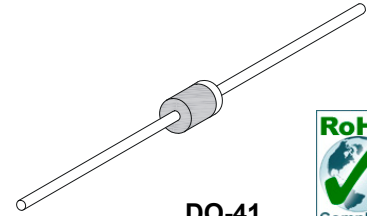


1.0 A Schottky Barrier Rectifiers

Features

- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Current Capability
- High temperature soldering guaranteed:
250° C/10 seconds, .0375" (9.5mm) lead length
- RoHS compliant



DO-41



Mechanical Data

Case:	DO-41, Molded Plastic
Epoxy:	UL 94V-0 Rate Flame Retardant
Polarity:	Color Band Denotes Cathode End
Terminals:	Axial leads, solderable per MIL-STD-202, Method 208 Guaranteed
Weight:	0.33 gram

Maximum Ratings & Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbols	Description	TSR 120	TSR 130	TSR 140	TSR 150	TSR 160	TSR 190	TSR 1100	Unit
VRRM	Max. recurrent peak reverse voltage	20	30	40	50	60	90	100	V
VRMS	Max. RMS voltage	14	21	28	35	42	63	70	V
VDC	Max. DC blocking voltage	20	30	40	50	60	90	100	V
Io(AV)	Max. average forward rectified current (FIG.1)	1.0							A
IFSM	Peak forward surge current (JEDEC)	40							A
VF	Max. instantaneous forward voltage at 1.0A	0.55		0.70		0.85		V	
IR	Max. DC reverse current at rated DC blocking voltage	TA =25°C		0.5				mA	
		TA =100°C		10.0					
RθJA	Typical thermal resistance, Junction to Ambient (Note1)	50							° C/W
CJ	Typical Junction Capacitance @VR=4.0V, 1MHz (Note2)	110			80			pf	
TJ	Operating junction temperature range	-50 to +125			-50 to +150			° C	
TSTG	Storage Temperature Range	-65 to +150							° C

1.0 A Schottky Barrier Rectifier

TSR120 -TSR1100

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

Typical Characteristics Curves

Fig.1- Typical Forward Current Derating Curve

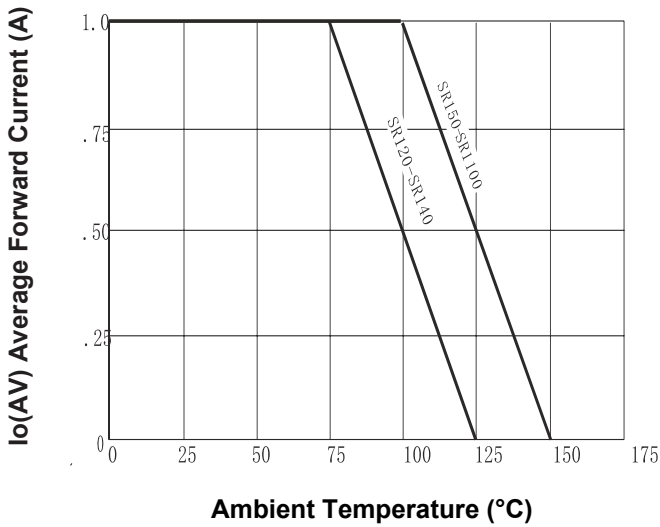


Fig.2-Max. Non-repetitive Peak Forward Surge Current

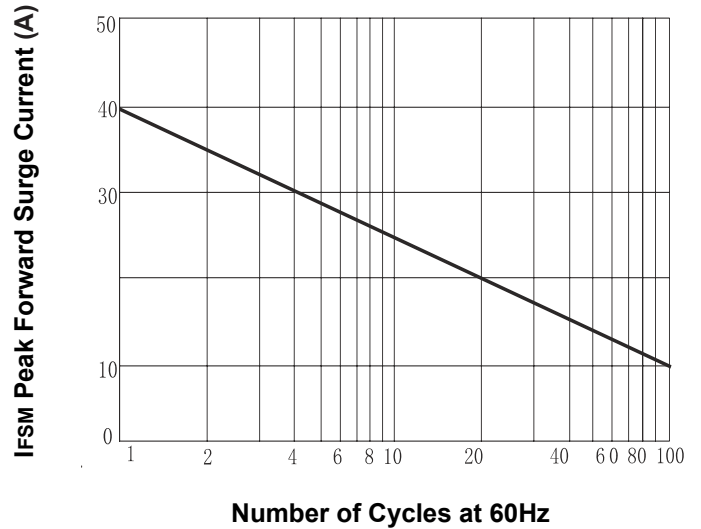


Fig.3- Typical Instantaneous Forward Characteristics

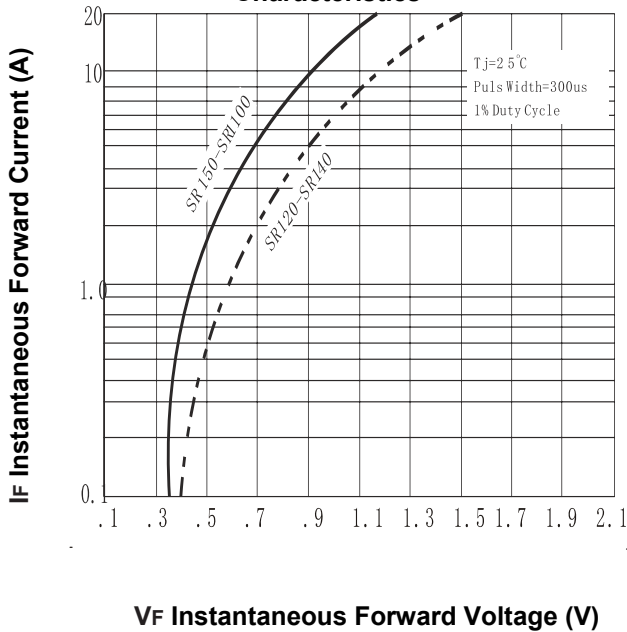
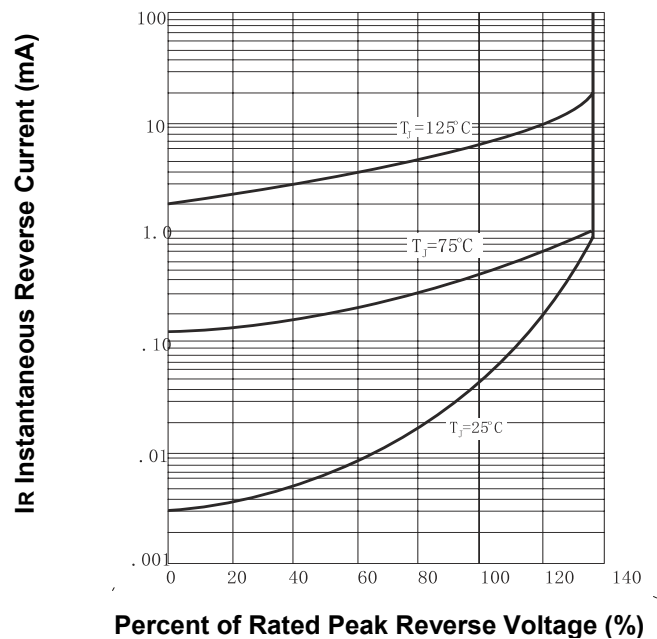


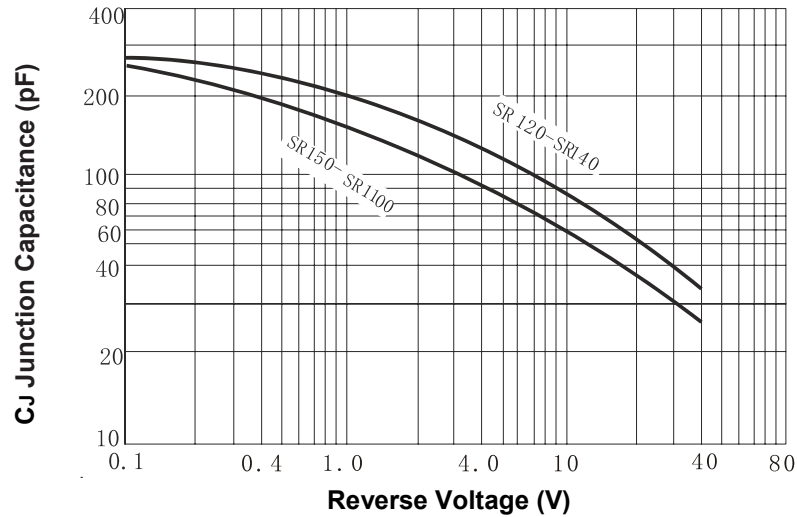
Fig.4- Typical Reverse Characteristics



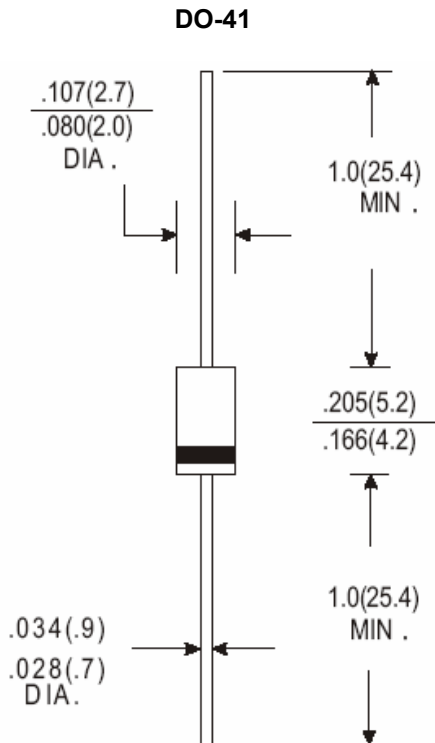
1.0 A Schottky Barrier Rectifier

TSR120 -TSR1100

Fig.5-Typical junction capacitance



Dimensions in inches (mm)



1.0 A Schottky Barrier Rectifier

TSR120 -TSR1100

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