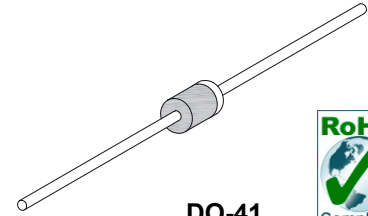


1.0 A Schottky Barrier Rectifiers

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°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

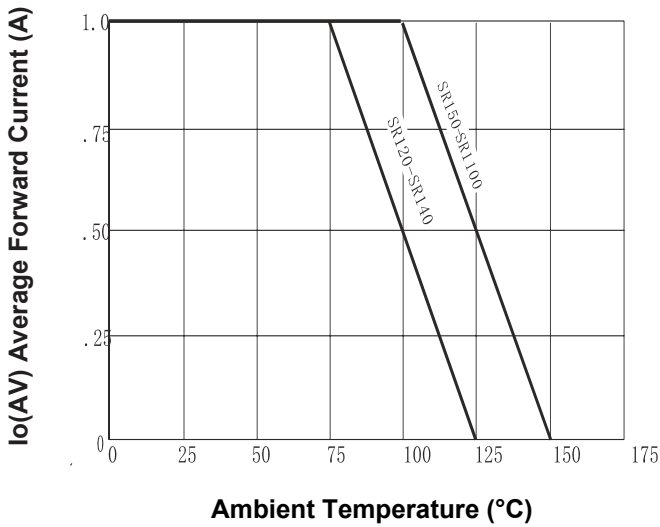


Fig.2-Max. Non-repetitive Peak Forward Surge Current

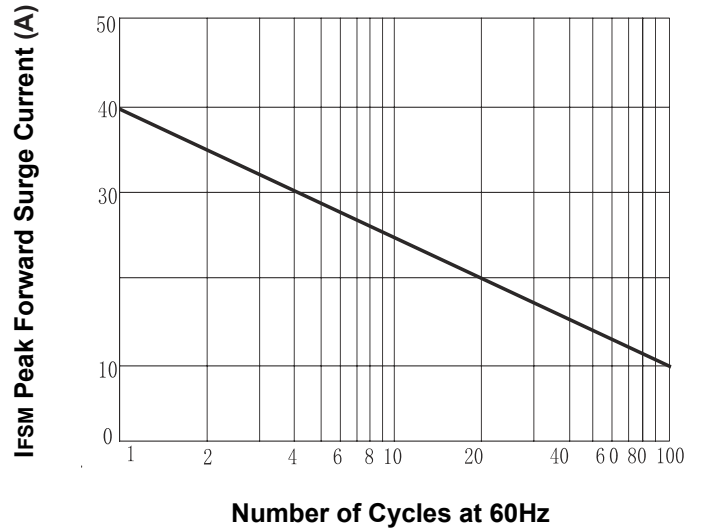


Fig.3- Typical Instantaneous Forward Characteristics

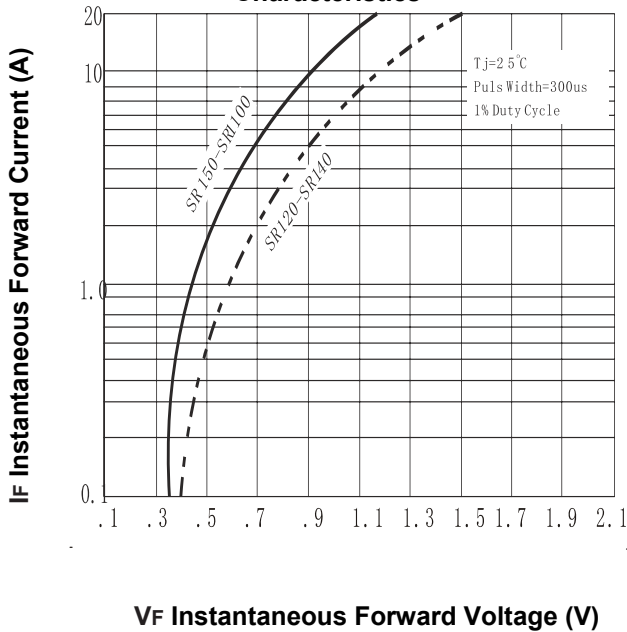
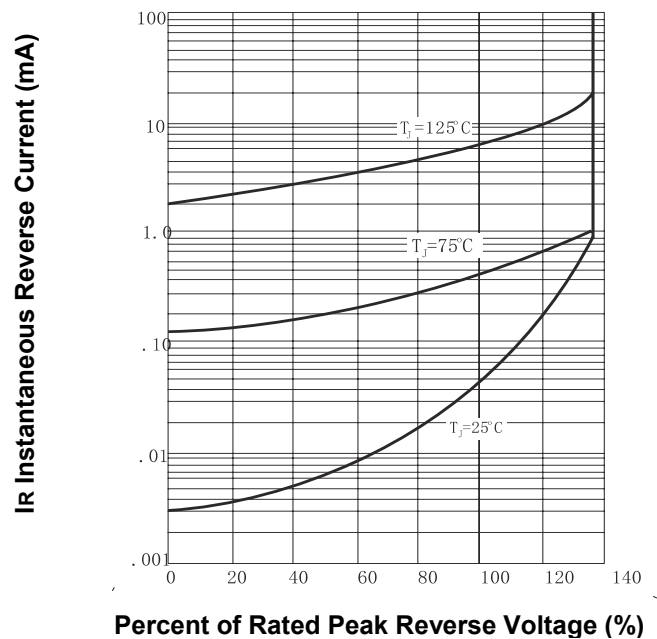


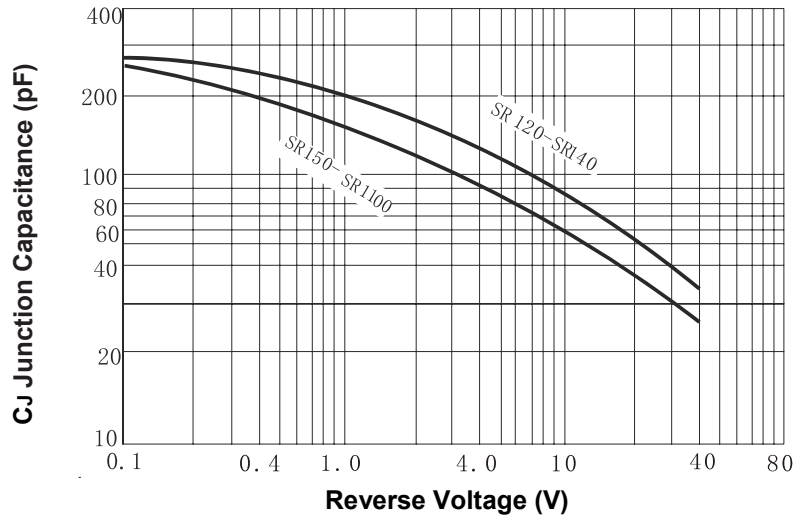
Fig.4- Typical Reverse Characteristics



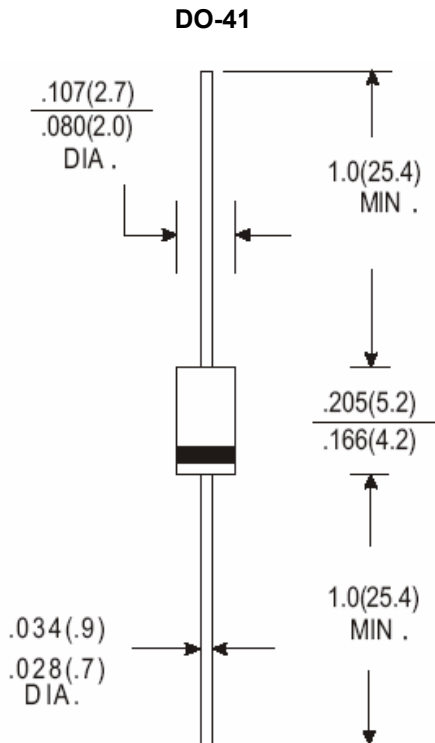
1.0 A Schottky Barrier Rectifier

TSR120 -TSR1100

Fig.5-Typical junction capacitance



Dimensions in inches (mm)



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