

Glass Passivated Rectifier

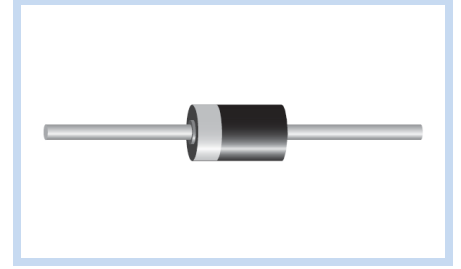
1.5A 1700V DO-41

PR1517SA

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FEATURE

- High forward surge capability
- Construction Design for High Reliability Application
- Excellent Clamping Capability
- Glass Passivated Junction
- UL Flammability Classification Rating 94V-0



MECHANICAL DATA

- Case: DO-41, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Color Band Denotes Cathode End



MAXIMUM RATINGS AND CHARACTERISTICS

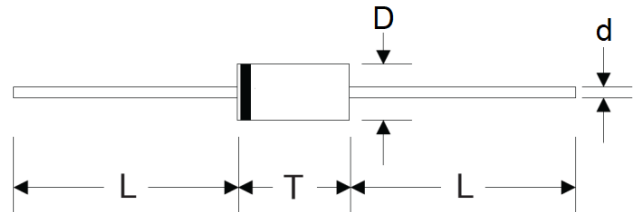
Parameter	Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1700	V
Maximum RMS Voltage	V_{RMS}	1190	V
Maximum DC Blocking Voltage	V_{DC}	1700	V
Maximum Average Forward Current .375"(9.5mm) Lead Length	$I_{F(AV)}$	1.5	A
Peak Forward Surge Current, (JEDEC Method) 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	50	a
Rating for Fusing ($t < 8.3ms$)	I^2t	10.375	A ² sec
Maximum forward voltage at 1.5A	V_F	2.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	1	μA
Typical Thermal Resistance Junction to Lead	$R_{\theta JL}$	43	$^{\circ}C/W$
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	110	$^{\circ}C/W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^{\circ}C$

Note:

1. $T_A = 25^{\circ}C$ ambient temperature unless otherwise specified.
2. Resistive or inductive load, 60Hz, single phase, half wave, for capacitive load, derate current by 20%
3. Test without heat sink, Mounted on FR4 PCB, Single-sided copper, with 48cm² copper pad area and valid provided that lead at distance of 10mm

DIMENSIONS

DO-41	Min(mm)	Max(mm)
D	2.0	2.7
T	4.1	5.2
L	25.4	-
d	0.71	0.86



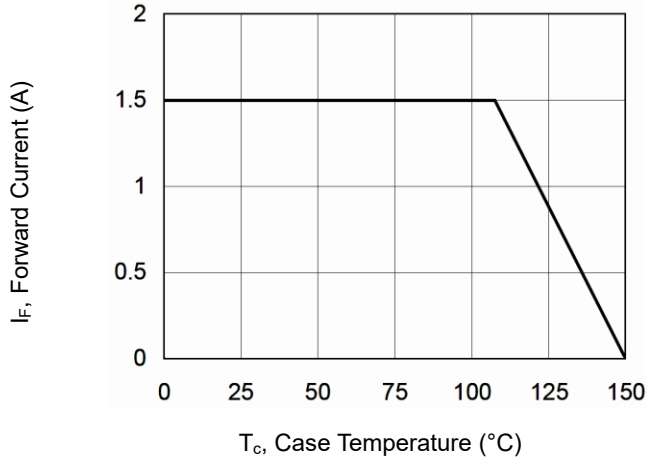
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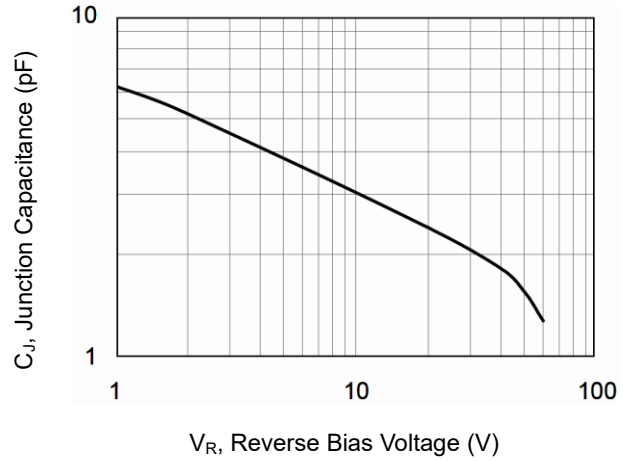
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CHARACTERISTIC CURVES

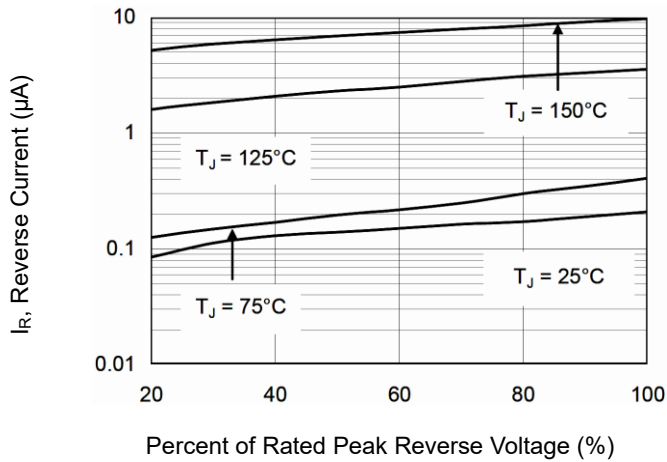
Forward Current Derating Curve



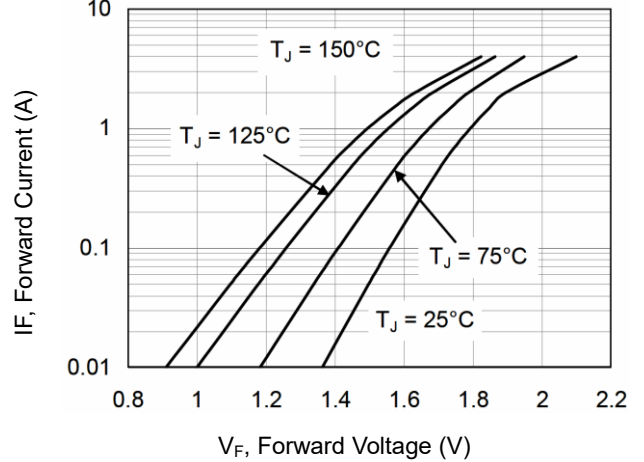
Typical Junction Capacitance



Typical Reverse Characteristics



Typical Forward Characteristics



Ordering Information

Device	Package	Delivery Mode	Qty
PR1517SA	DO-41	Tape and Ammo Box (T/B)	5000pcs

*Specifications subject to change without notice