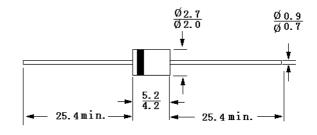
# PR1600, PR1800

# **HIGH VOLTAGE SILICON RECTIFIERS** Reverse Voltage - 1600 to 1800 Volts Forward Current – 0.1 Amperes

#### Features

- Low cost .
- Diffused junction •
- Low leakage •
- Low forward voltage drop •
- High current capability





Dimensions in mm

## **Mechanical Data**

- Case: Molded plastic, DO-41, •
- Terminals: Axial leads, solderable per MIL-STD-202. Method 208. .
- Polarity: Color band denotes cathode. •
- Mounting Position: Any.

## **Absolute Maximum Ratings and Characteristics**

Ratings at 25<sup>0</sup>C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz. resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	PR1600	PR1800	Units
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	1600	1800	V
Maximum RMS voltage	V <sub>RMS</sub>	1120	1260	V
Maximum DC blocking voltage	V <sub>DC</sub>	1600	1800	V
Maximum average forward rectified current 9.5 mm lead length @ $T_A$ = 75 $^{\circ}C$	I <sub>(AV)</sub>	0.1		А
Peak forward surge current @ $T_A = 125$ <sup>o</sup> C 8.3ms single half-sine-wave superimposed on rated load	I <sub>FSM</sub>	20		A
Maximum instantaneous forward voltage at 0.1A	VF	15		V
Maximum reverse current $@T_A = 25 °C$	I <sub>R</sub>	5 100		μΑ
Maximum reverse recovery time (Note 1)	trr	300		nS
Typical junction capacitance (Note 2)	CJ	20		pF
Typical thermal resistance (Note 3)	R <sub>øJA</sub>	35		°C/W
Operating junction temperature range	TJ	-65 to +150		°C
Storage temperature range	Ts	-65 to +150		°C

Notes: (1) Measured with  $I_F = 0.5A$ ,  $I_R = 1A$ ,  $I_{rr} = 0.25A$ .

(2) Measured at  $1MH_z$  and applied reverse voltage of 4VDC.

(3) Thermal Resistance Junction to Ambient.











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