

R2500 THRU R5000

HIGH VOLTAGE SILICON RECTIFIER

Reverse Voltage - 2500 to 5000 Volts Forward Current - 0.2 Ampere

FEATURES

- Low cost
- Low leakage
- Low forward voltage drop
- High current capability

MECHANICAL DATA

Case: JEDEC DO-15 molded plastic body

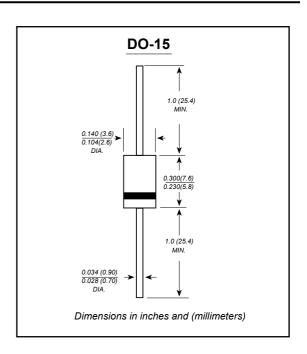
Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.014 ounce, 0.40 grams





Maximum Ratings and Electrical Characteristics

@ T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	R2500	R3000	R4000	R5000	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	2500	3000	4000	5000	V
RMS Reverse Voltage	V _{R(RMS)}	1750	2100	2800	3500	V
Average Rectified Output Current (Note 1) @ TL= 50°C	Io	200				mA
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30				А
Forward Voltage $@ I_F = 200 \text{mA}$	V _{FM}	3.0	4.0	5.0		V
Peak Reverse Leakage Current at Rated DC Blocking Voltage	I _{RM}	5.0				μА
Typical Junction Capacitance (Note 2)	Cj	30				pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	117				K/W
Operating and Storage Temperature Range	$T_{j,}T_{STG}$	-65 to +150				°C

Notes:

- 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



R2500 THRU R5000

RATINGS AND CHARACTERISTIC CURVES

