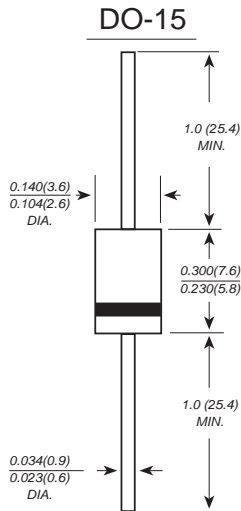


R5000

HIGH VOLTAGE SILICON RECTIFIER

Reverse Voltage - 5000 Volts

Forward Current - 0.2 Ampere



Dimensions in inches and (millimeters)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250 °C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-15 molded plastic body
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

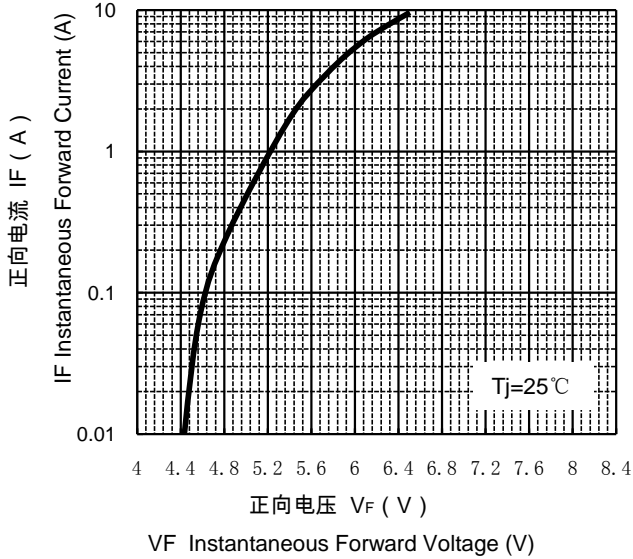
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS MARKING	R5000	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	5000	VOLTS
Maximum RMS voltage	V_{RMS}	3500	VOLTS
Maximum DC blocking voltage	V_{DC}	5000	VOLTS
Maximum average forward rectified current at $T_A=50^\circ\text{C}$	$I_{(AV)}$	0.2	Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	20.0	Amps
Maximum instantaneous forward voltage at 0.2A	V_F	5.0	Volts
Maximum DC reverse current at rated DC blocking voltage	I_R	5.0 100	uA
Typical thermal resistance	R_{qJA}	85.0	°C/W
Operating junction temperature range	T_J	-55 to +125	°C
Storage temperature range	T_{STG}	-55 to +150	°C

RATINGS AND CHARACTERISTIC CURVES

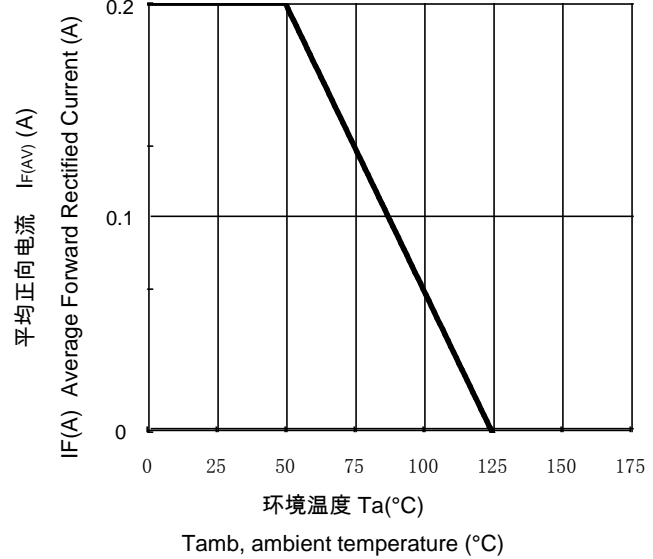
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



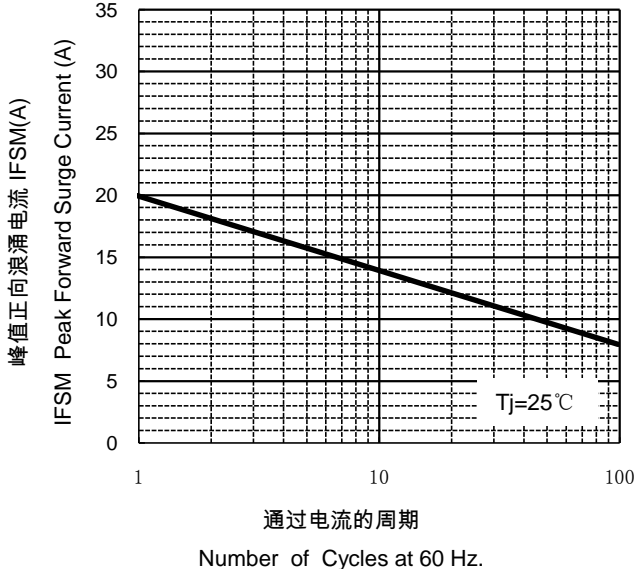
正向电流降额曲线

FORWARD CURRENT DERATING CURVE



浪涌特性曲线 (最大值)

MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



反向特性曲线

TYPICAL REVERSE CHARACTERISTICS

