

DATA SHEET



R2500 THRU R5000

HIGH VOLTAGE SILICON RECTIFIERS

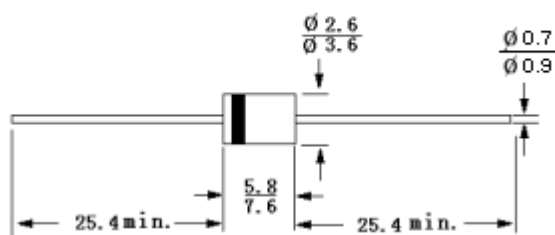
Reverse Voltage – 2500 to 5000 Volts

Forward Current – 0.2 Amperes

Features

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

DO-15



Dimensions in mm

Absolute Maximum Ratings and Characteristics

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

	Symbols	R2500	R3000	R4000	R5000	Units
Maximum recurrent peak reverse voltage	V _{RRM}	2500	3000	4000	5000	V
Maximum RMS voltage	V _{RMS}	1750	2100	2800	3500	V
Maximum DC blocking voltage	V _{DC}	2500	3000	4000	5000	V
Maximum forward voltage at 0.2 A	V _F	3.0	4.0	5.0		V
Maximum average forward rectified current at T _A = 50?	I _(AV)	200				mA
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30				A
Maximum DC reverse current at rated DC blocking voltage	T _A = 25?	I _R	5.0		A	
	T _A = 100?		100			
Maximum full load reverse current average, Full cycle 0.375"(9.5mm)lead length at T _L = 75?			30			
Typical junction capacitance (Note 1)	C _J	30				pF
Operating and storage temperature range	T _J ,T _S	-55 to +150				?

Notes: (1) Measured at 1MHz and applied reverse voltage of 4VDC

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FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

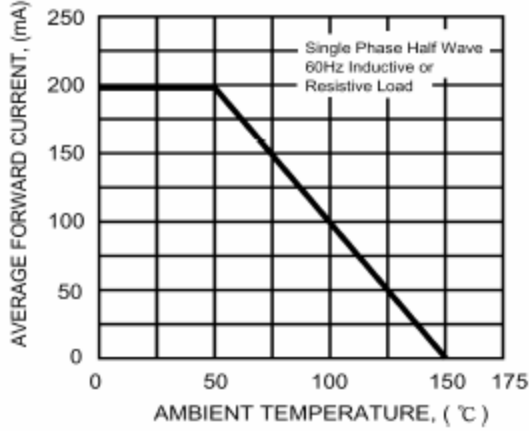


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

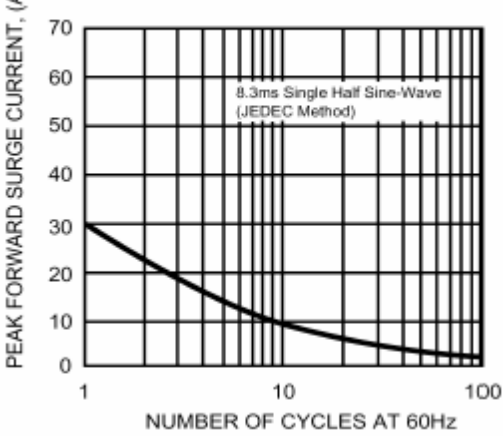


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

