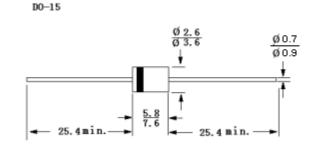
## R2500 THRU R5000

## 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



Dimensions in mm

## **Absolute Maximum Ratings and Characteristics**

Ratings at 25<sup>°</sup>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 <sub>RRM</sub>	2500	3000	4000	5000	V
Maximum RMS voltage		V <sub>RMS</sub>	1750	2100	2800	3500	V
Maximum DC blocking voltage		V <sub>DC</sub>	2500	3000	4000	5000	V
Maximum forward voltage at 0.2 A		V <sub>F</sub>	3.0	4.0	5.0		V
Maximum average forward rectified current at $T_A = 50^{\circ}C$ Peak forward surge current 8.3mS single half sine-wave superimposed		I <sub>(AV)</sub>	200				mA
on rated load (JEDEC method)		I <sub>FSM</sub>	30				A
Maximum DC reverse current at rated DC blocking voltage	<b>T</b> <sub>A</sub> <b>= 25</b> ℃		5.0				μΑ
	T <sub>A</sub> = 100°C	I <sub>R</sub>	100				
Maximum full load reverse current average, Full cycle 0.375"(9.5mm)lead length at $T_L$ = 75 $^\circ$ C			30				
Typical junction capacitance (Note 1)		CJ	30				pF
Operating and storage temperature range		T <sub>J</sub> ,T <sub>S</sub>	-55 to +150				°C

Notes: (1) Measured at 1MH<sub>z</sub> and applied reverse voltage of 4VDC



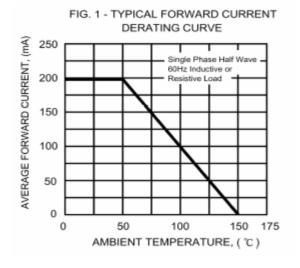


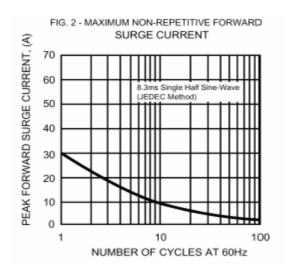


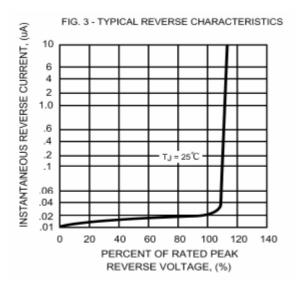


(Subsidiary of Semtech International Holdings Limited, acompany listed on the Hong Kong Stock Exchange, Stock Code: 724)

Dated : 30/03/2005 H

















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