

Features

- * Low Forward Voltage Drop
- * High Current Capability
- * High Reliability
- * High Surge Current Capability

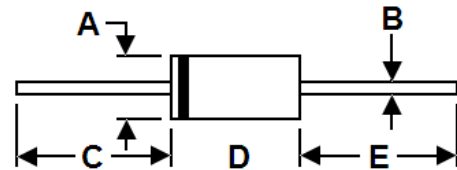


RoHS
COMPLIANT



Package Outline Dimensions

DO-15:



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	2.6	3.6	0.102	0.142
B	0.7	0.9	0.027	0.035
C	25.4	-	1.0	-
D	5.8	7.6	0.228	0.300
E	25.4	-	1.0	-

Mechanical Data

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any

Maximum Ratings and Electrical Characteristics

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

Type Number	Symbol	R2500	R3000	R4000	R5000	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	2500	3000	4000	5000	V
Maximum RMS Voltage	V_{RMS}	1750	2100	2800	3500	V
Maximum D.C Blocking Voltage	V_{DC}	2500	3000	4000	5000	V
Maximum Average Forward Rectified Current .375" (9.5mm)Lead Length @ $T_A=50^{\circ}C$	$I_{F(AV)}$	200				mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	30				A
Maximum Instantaneous Forward Voltage at 0.2A	V_F	3.0	4.0	5.0		V
Maximum D.C Reverse Current @ $T_A=25^{\circ}C$ at Rated D.C Blocking Voltage @ $T_C=100^{\circ}C$	I_R	5.0 40				μA
Maximum Full Load Reverse Current, Full Cycle Average 0.375" (9.5mm) Lead Length at $T_L = 75^{\circ}C$	$I_{R(AV)}$	30				μA
Operating and Storage Temperature Range	T_J/T_{STG}	-55 to +125 / -55 to +150				$^{\circ}C$

Ratings and Characteristic Curves

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

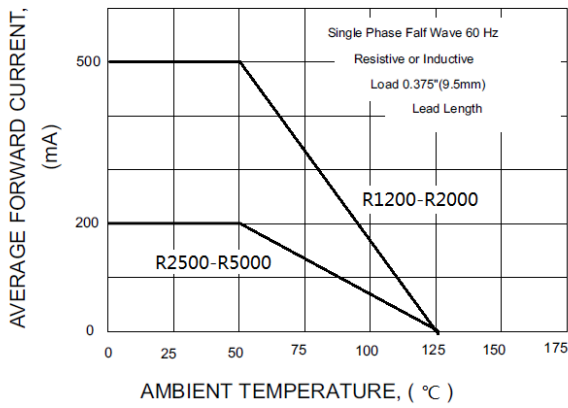


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

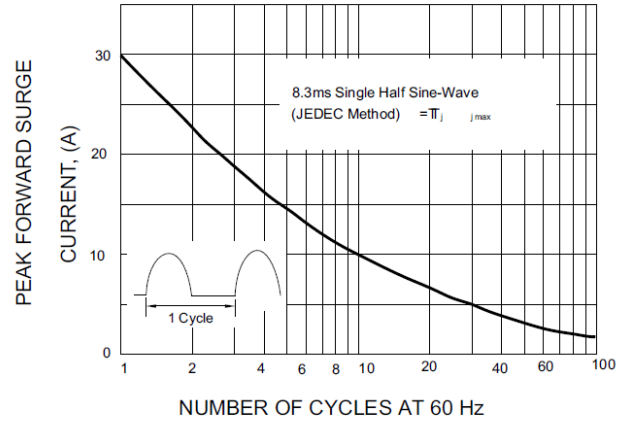
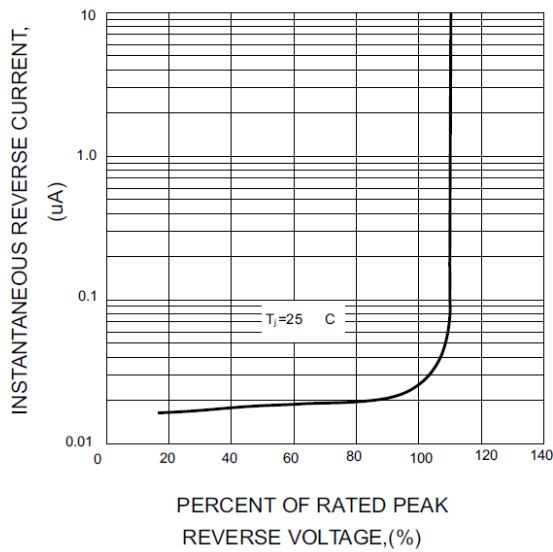


FIG.3-TYPICAL REVERSE
CHARACTERISTICS





R2500 THRU R5000

High Voltage Silicon Rectifiers

Ordering Information

Part No.	Package	Packing
R2500~R5000	DO-15	2K/AMMO box
R2500~R5000	DO-15	3K/AMMO box
R2500~R5000	DO-15	4K/13" Paper reel
R2500~R5000	DO-15	0.5K/Bulk packing