



HVGT high voltage silicon rectifier diodes is made of high quality glass passivated chip and high reliability epoxy resin sealing structure, and through professional testing equipment inspection qualified after to customers.

### SHAPE DISPLAY:



### FEATURES:

1. Low cost .
2. Low leakage .
3. Low forward voltage drop .
4. Conform to RoHS.
5. High current capability.

### APPLICATIONS:

1. High voltage multiplier circuit
2. Electrostatic generator circuit .
3. General purpose high voltage rectifier.
4. Other.

### MECHANICAL DATA:

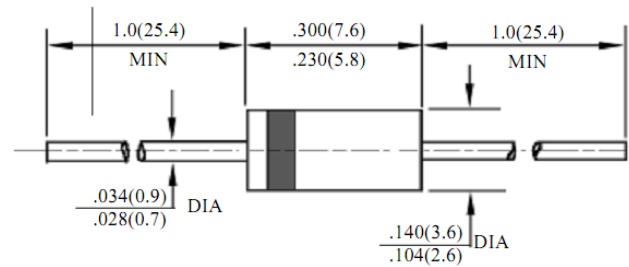
Case: JEDEC DO-15 molded plastic body  
 Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026  
 Polarity: Color band denotes cathode end  
 Mounting Position: Any.  
 Weight:0.014 ounce, 0.40 grams.

SIZE: (Unit:mm)

HVGT NAME: DO-15

### DO-15 Series

Lead Diameter 0.9mm



Unit: inches / mm

### MAXIMUM RATINGS AND CHARACTERISTICS: (@ TA= 25°C unless otherwise specified)

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

Characteristic	Symbols	R3000	R4000	R5000	Units
Peak Repetitive Reverse Voltage	$V_{RRM}$				
Working Peak Reverse Voltage	$V_{RWM}$	3000	4000	5000	V
DC Blocking Voltage	$V_R$				
RMS Reverse Voltage	$V_{R(RSM)}$	2100	2800	3500	V
Average Output Current (Note 1) @ $T_L = 50^\circ C$	$I_o$	200			mA
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	30			A
Forward Voltage @ $I_F = 200mA$	$V_{FM}$	4.0	5.0		V
Peak Reverse Leakage Current at Rated DC Blocking Voltage	$I_{RM}$	5.0			$\mu A$
Typical Junction Capacitance (Note 2)	$C_j$	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			$^\circ C$

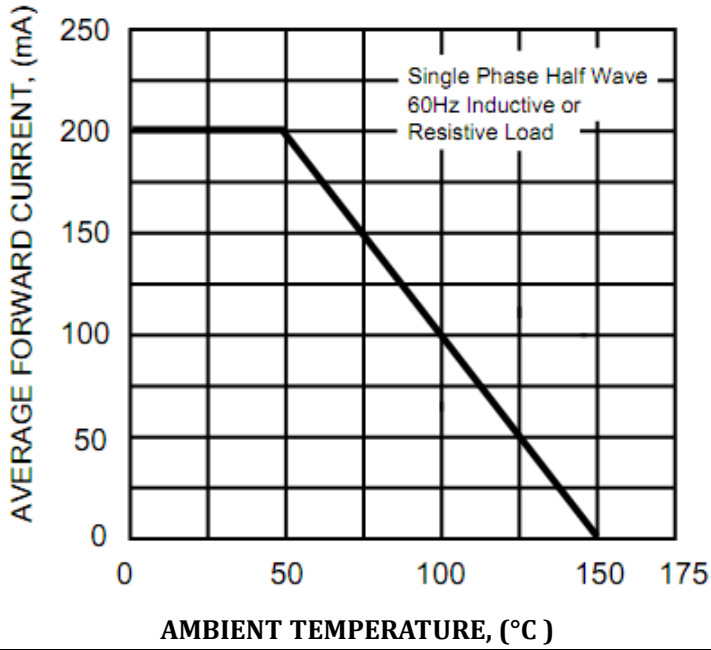
Notes: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



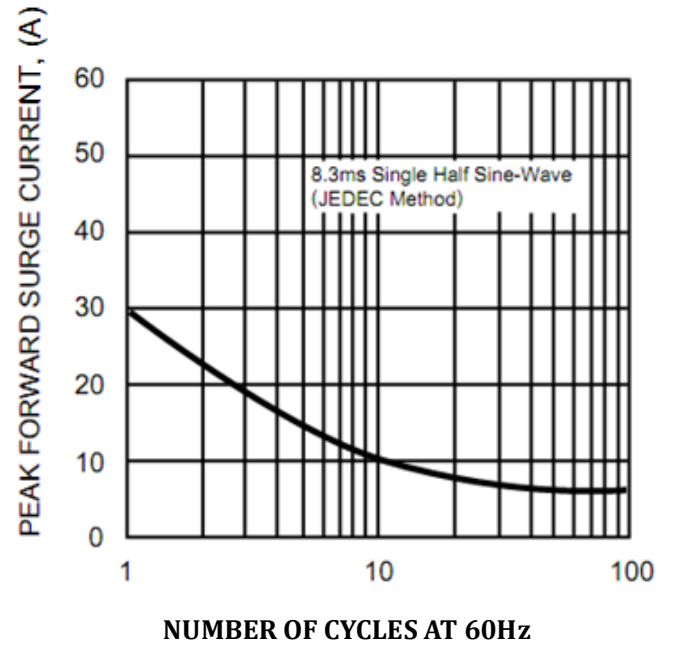
**Fig 1**

**TYPICAL FORWARD CURRENT  
DERATING CURVE**



**Fig 2**

**MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT**



**Fig 3**

**TYPICAL REVERSE CHARACTERISTICS**

