



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. Fast switching.
2. Low leakage .
3. High surge capability .
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:

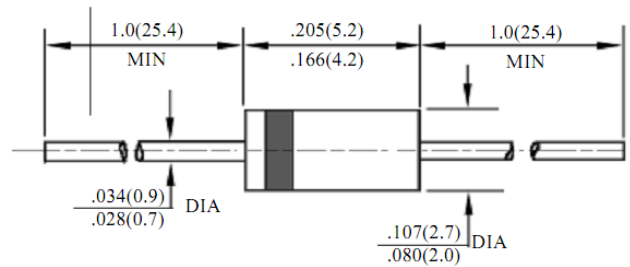
Case: JEDEC DO-41 molded plastic body
 Terminals: Plated axial leads, solderable per MIL-STD-202E, Method 208
 Polarity: Color band denotes cathode end
 Mounting Position: Any.
 Weight: 0.29 grams.

SIZE: (Unit:mm)

HVGT NAME: DO-41

DO-41 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	RFC2K	RFC3K	RFC4K	Units
Peak Repetitive Reverse Voltage		V_{RRM}				
Working Peak Reverse Voltage		V_{RWM}	2000	3000	4000	V
DC Blocking Voltage		V_R				
RMS Reverse Voltage		$V_{R(RSM)}$	1400	2100	2800	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	6.5	V
Peak Reverse Leakage Current at Rated DC Blocking Voltage	@ $T_A = 25^\circ C$	I_{RM}	5.0			uA
	@ $T_A = 100^\circ C$		100			
Typical Junction Capacitance (Note 2)		C_j	30			pF
Maximum Reverse Recovery Time (Note 3)		T_{RR}	500			nS
Operating and Storage Temperature Range		T_j, T_{STG}	-65 to +150			°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.

3. Test Conditions: $I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A$



Fig 1

TYPICAL FORWARD CURRENT DERATING CURVE

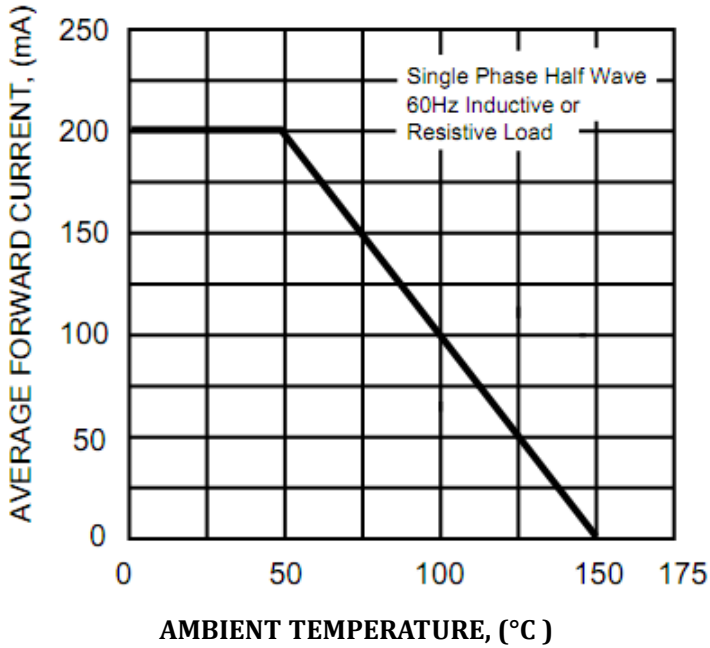


Fig 2

MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

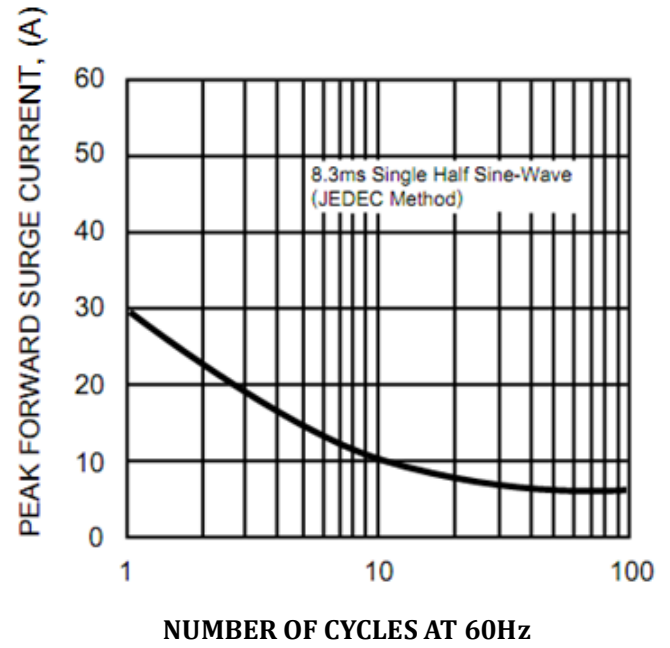


Fig 3

TYPICAL REVERSE CHARACTERISTICS

PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

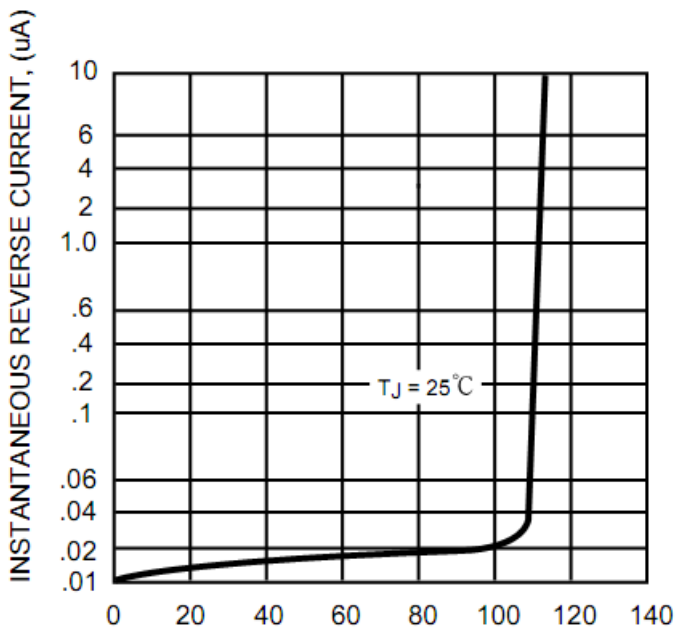
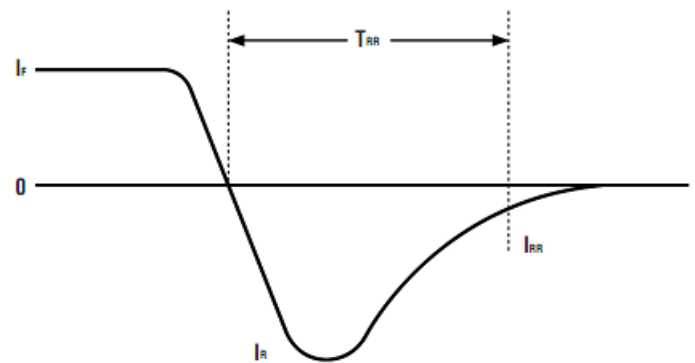


Fig 4

REVERSE RECOVERY MEASUREMENT WAVEFORM



Typical data capture points: $I_F = 0.5I_R$, $I_R, I_{IRR} = 0.25I_R$
 I_R is typically the rated average forward current maximum (I_{FAVM}) of the D.U.T

PACKING INSTRUCTIONS:

Carton: L255mm x H145mm x W78mm, 5,000pcs tape in the box.