

INTRODUCE:

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

FEATURES:

1. High reliability design.
2. Ultra Super Fast recovery time.
3. SMT.
4. Conform to RoHS and SGS.
5. Epoxy resin molded in vacuum Have anticorrosion in the surface.

APPLICATIONS:

1. Detecting equipment.
2. General purpose high voltage rectifier .
3. Rectification for X-ray generator high voltage power supply.

MECHANICAL DATA:

1. Case: epoxy resin molding.
2. Terminal: Radial vane.
3. Net weight: 0.32 grams (approx).

SHAPE DISPLAY:

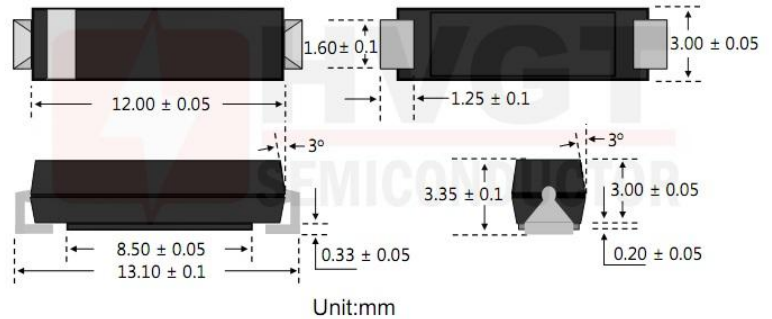


SIZE: (Unit:mm)

HVGT NAME: SMK-J

SMK-J Series

SMK-J Lead



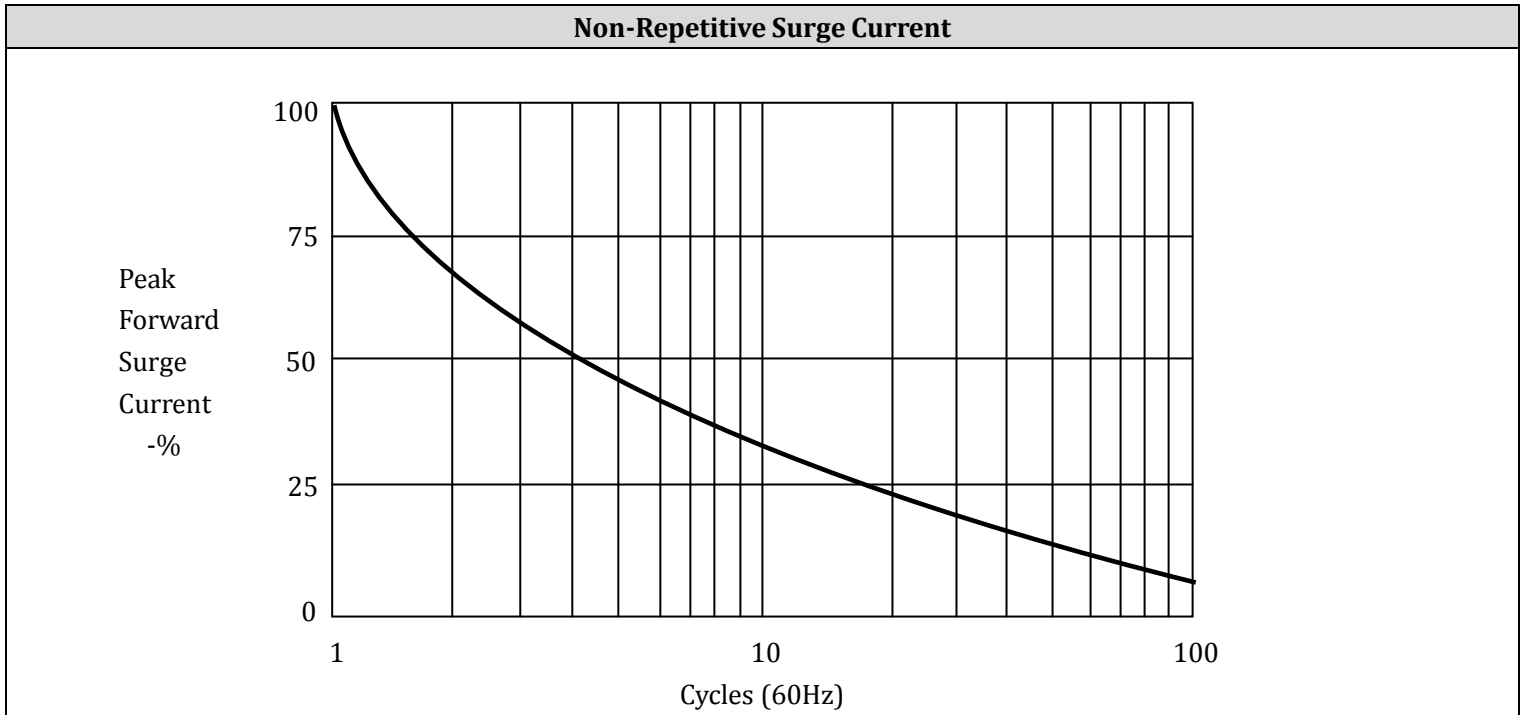
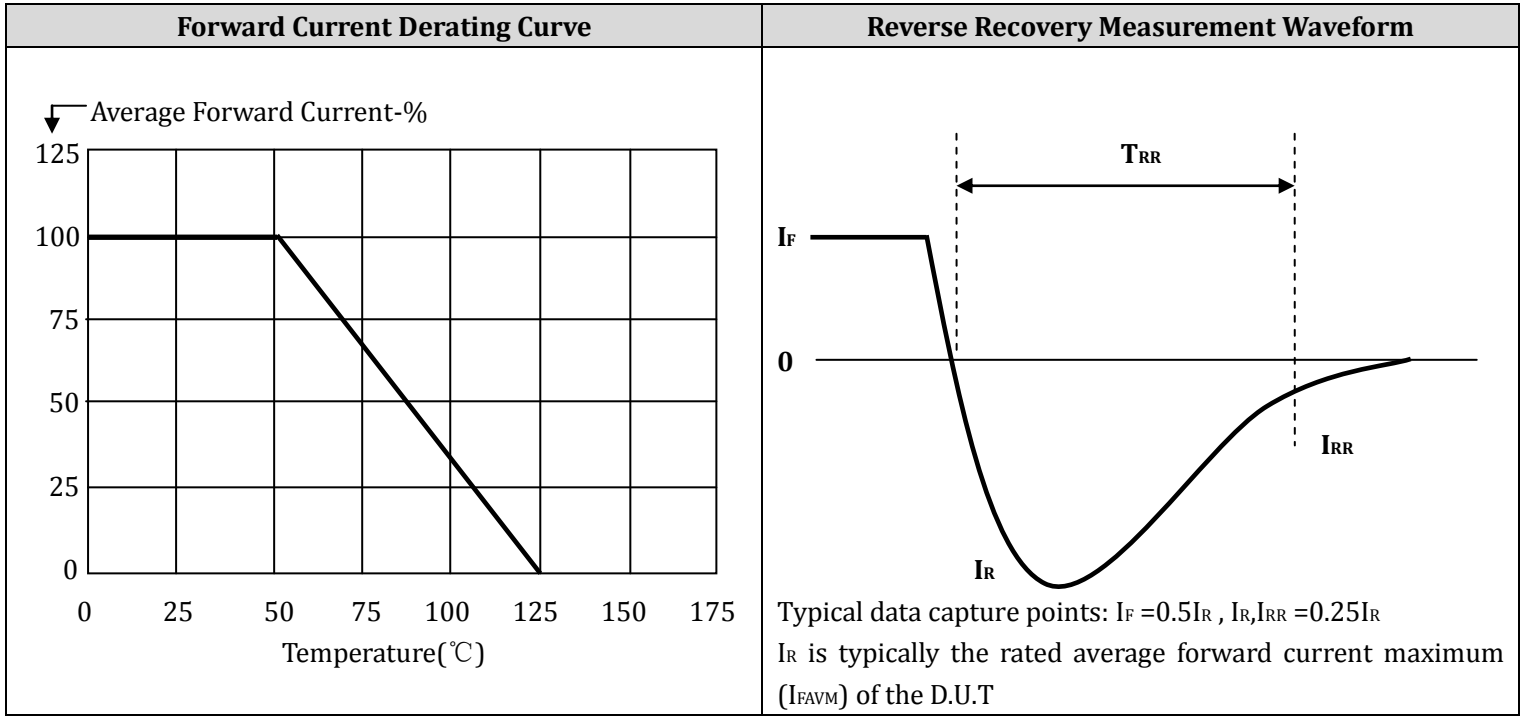
Unit:mm

MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Reverse Voltage	V_{RRM}	$T_A=25^{\circ}C$	10	kV
Non-Repetitive Peak Reverse Voltage	V_{RSM}	$T_A=25^{\circ}C$	--	kV
Average Forward Current Maximum	I_{FAVM}	$T_A=50^{\circ}C$	150	mA
		$T_{OIL}=100^{\circ}C$	80	mA
Non-Repetitive Forward Surge Current	I_{FSM}	$T_A=25^{\circ}C$; 60Hz Half-Sine Wave; 8.3ms	5.0	A
Junction Temperature	T_J		125	$^{\circ}C$
Allowable Operation Case Temperature	T_C		-40~+125	$^{\circ}C$
Storage Temperature	T_{STG}		-40~+150	$^{\circ}C$

ELECTRICAL CHARACTERISTICS: $T_A=25^{\circ}C$ (Unless Otherwise Specified)

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	V_{FM}	at $25^{\circ}C$; at 100mA	18	V
Maximum Reverse Current	I_{R1}	at $25^{\circ}C$; at V_{RRM}	0.5	μA
	I_{R2}	at $100^{\circ}C$; at V_{RRM}	20	μA
Maximum Reverse Recovery Time	T_{RR}	at $25^{\circ}C$; $I_F=0.5I_R$; $I_R=I_{FAVM}$; $I_{RR}=0.25I_R$	40	nS
Junction Capacitance	C_J	at $25^{\circ}C$; $V_R=0V$; $f=1MHz$	2.2	pF



	Type	Code	Cathode Mark
Marking	SM15US10J	15US10J HVGT	

- NOTES:**
1. Minimum packing quantity:1,000PCS
 2. Specifications based on diode P.C.B. mounted on 5.0 mm x 5.0 mm copper solder pads.