

INTRODUCE:

HVGT high voltage bridge rectifier 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. High voltage design.
3. Single phase bridge rectifier
4. Conform to RoHS and SGS.
5. Epoxy resin molded in vacuum Have anticorrosion in the surface.

APPLICATIONS:

1. High voltage AC power rectifier
2. High pressure instrument.
3. General purpose high voltage rectifier.
4. Other.

MECHANICAL DATA:

1. Case: epoxy resin molding.
2. Terminal: Lead type welding terminal.
3. Net weight: 4.6 grams (approx).

SHAPE DISPLAY:

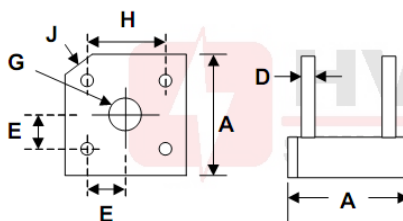


SIZE: (Unit:mm)

HVGT NAME: BR-10

BR-10 Series

Holes for No.6 screw



BR-10		
Dim	Min	Max
A	18.54	19.56
B	6.35	7.60
C	19.00	—
D	1.0 \varnothing Typical	
E	6.80	7.50
G	Hole for #6 screw	
	3.60	4.00
H	14.50	15.50
J	2.38 x 45°C Typical	
HVGT		

Unit:mm

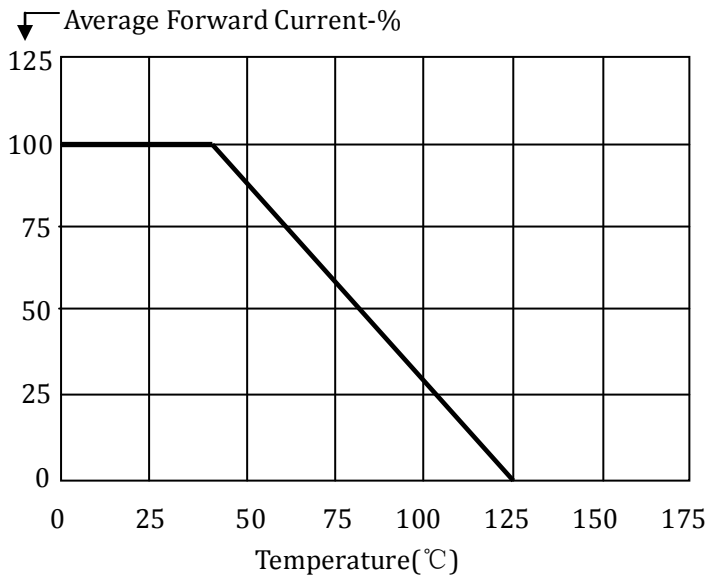
MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Reverse Voltage	V_{RRM}	$T_A=25^{\circ}C$	20	kV
Non-Repetitive Peak Reverse Voltage	V_{RSM}	$T_A=25^{\circ}C$	24	kV
Average Forward Current Maximum	I_{FAVM}	$T_A=40^{\circ}C$	25	mA
		$T_{OIL}=55^{\circ}C$	-	A
Non-Repetitive Forward Surge Current	I_{FSM}	$T_A=25^{\circ}C$; 50Hz Half-Sine Wave; 8.3ms	1.0	A
Junction Temperature	T_J		125	$^{\circ}C$
Allowable Operation Case Temperature	T_c		-40~+125	$^{\circ}C$
Storage Temperature	T_{STG}		-40~+125	$^{\circ}C$

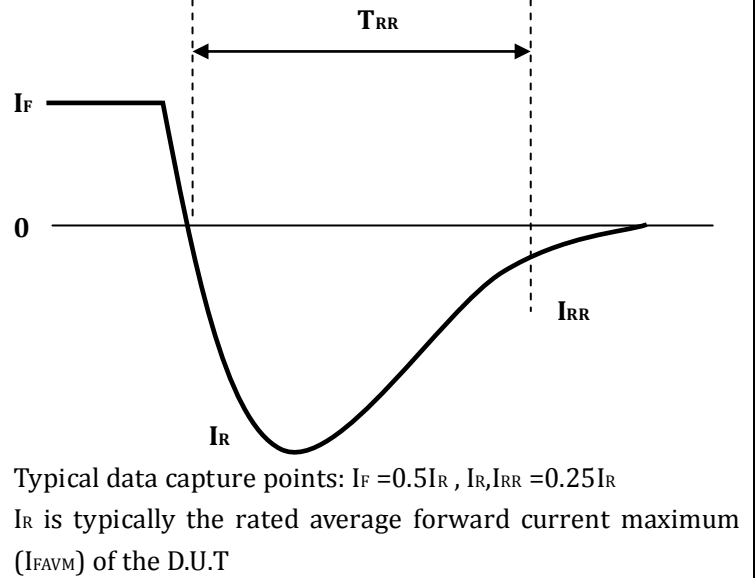
ELECTRICAL CHARACTERISTICS: $T_A=25^{\circ}C$ (Unless Otherwise Specified)

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	V_{FM}	at $25^{\circ}C$; at I_{FAVM}	35	V
Maximum Reverse Current	I_{R1}	at $25^{\circ}C$; at V_{RRM}	2.0	μA
	I_{R2}	at $100^{\circ}C$; at V_{RRM}	50	μA
Maximum Reverse Recovery Time	T_{RR}	at $25^{\circ}C$; $I_F=0.5I_R$; $I_R=I_{FAVM}$; $I_{RR}=0.25I_R$	100	nS
Junction Capacitance	C_J	at $25^{\circ}C$; $V_R=0V$; $f=1MHz$	--	pF

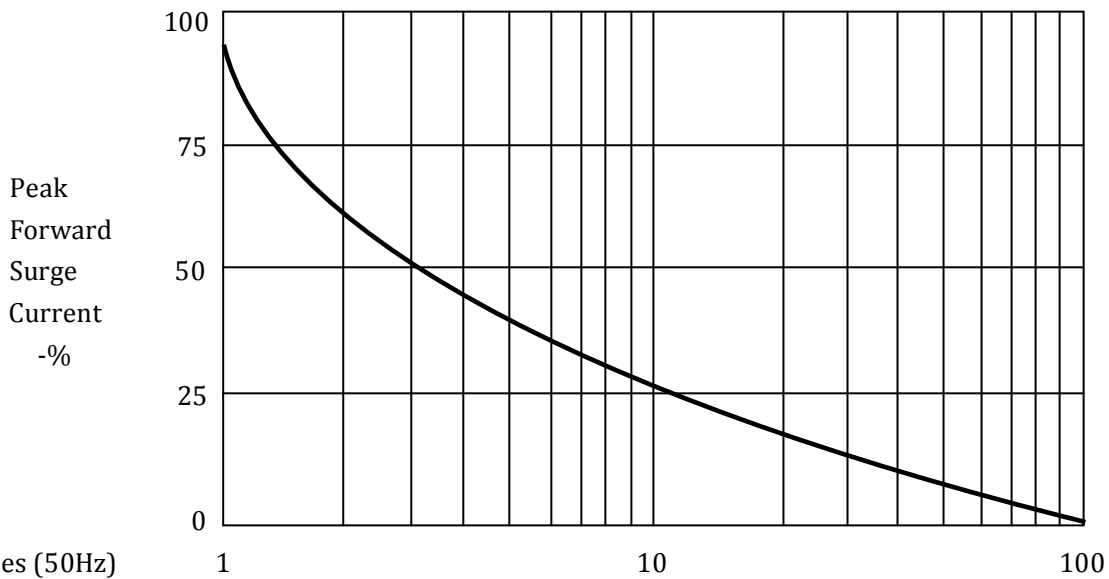
Forward Current Derating Curve



Reverse Recovery Measurement Waveform



Non-Repetitive Surge Current



MARKING:

Type	Code	Cathode Mark
HVQL2520	HVQL2520 HVGT	+ ~ ~ -

MODEL NOTE:

Type	$I_{F(AV)}$	Device structure	V_{RRM}	Frequency
HVQL	25		20	
High Voltage Bridge Rectifier Series	25mA	(MB)=Single-phase (MT)=Three-phase	20KV	(D)=Low frequency (G)=High frequency