H.QL5~500KV/0.5A Product Data

High voltage rectifier block adopts high reliable mesa structure and diffusion craftwork, epoxy resin molded in a compact structure.

■ Feature

- Avalanche characteristic
- More sizes to choose
- Epoxy resin molded in vacuum, have anticorrosion in the surface
- Operating Junction Temperature Tj: -40℃—+150℃

■ Application

- High voltage rectifier used in electrostatic cleaning
- High voltage generator
- High voltage testing equipment
- General purpose high voltage rectifier, voltage multiplier assembly

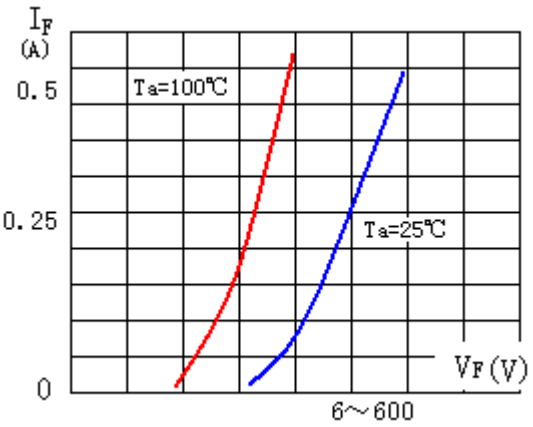
■ Limiting Value（Absolute Maximum Rating）

Item	Symbol	Unit	Conditions	Data
Repetitive Peak Reverse Voltage （Single Arm）	V_{RRM}	KV	Ta=25℃ I_R=1.0μA	5~500.0
Peak Working Revere Voltage （Single Arm）	V_{RWM}	KV	Ta=25℃ I_R=1.0μA	5~500.0
Non-Repetitive Peak Reverse Voltage （Single Arm）	V_{RsM}	KV	Ta=25℃ I_R=1.0μA	6~600.0
Average Forward Current	$I_{F(AV)}$	A	（50KHz Half-sine Wave，Resistance load @T_{break}=50℃）	0.5
Reverse Recovery Time	trr	nS	I_F=50mA I_R=100mA I_{RR}=25mA	--
Surge Forward Current	I_{FSM}	A	0.01S @ Half-Sine wave 50Hz	30.0
Operating Ambient Temperature	T_a	℃		-40～+125
Storage Temperature	T_{stg}	℃		-40～+125

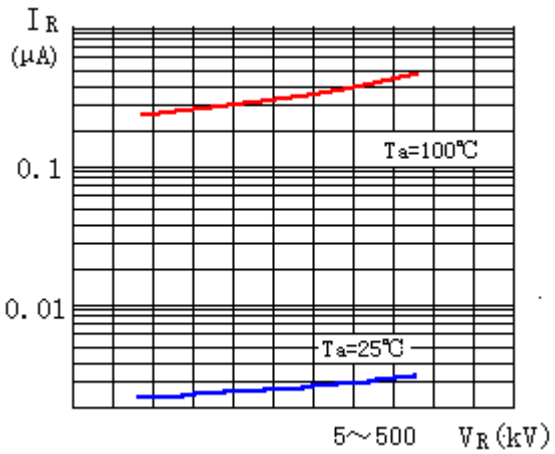
■ Electrical Characteristic（Ta=25℃ Unless Otherwise Specified）

Forward Peak Voltage （Single Arm; Reference Value）	V_{FM}	V	@ Ta=25℃ I_F=0.02A	6.0~600.0
Peak Reverse Current （Reference Value）	I_{RRM1}	μA	@ Ta=25℃ V_{RM}=V_{RRM}	2.0
	I_{RRM2}	μA	@ Ta=100℃ V_{RM}=V_{RRM}	50.0

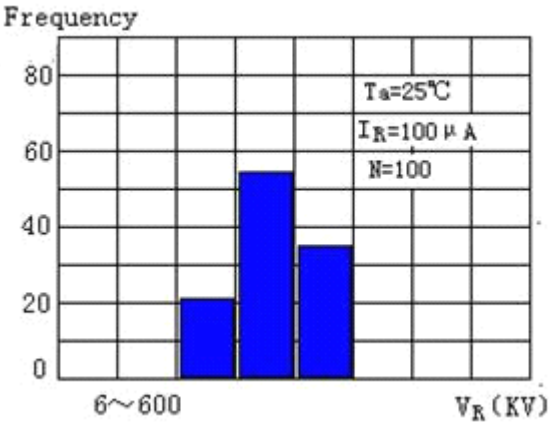
■ Characteristic Curve



Forward Characteristics



Reverse Characteristics



Avalanche Breakdowm Voltage Distribution