

Data Sheet

2CL20-15(T) 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
- Epoxyresin molded in vacuum, have anticorrosion in the surface
- Tj: -40℃—+120℃

■ Application

- Highvoltage rectifier used in electrostatic cleaning
- Highvoltage generator
- Highvoltage testing equipment
- General purpose highvoltage rectifier, voltage multiplier assembly

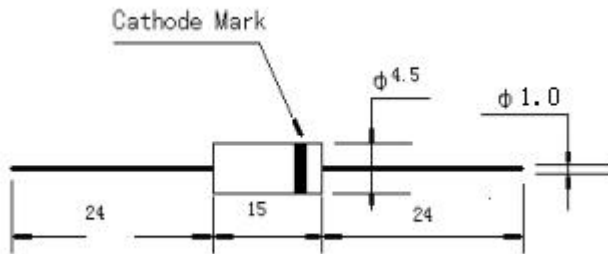
■ Maximum Rating

Item	Symbol	Unit	Conditions	Voltage
Repetitive Peak Reverse Voltage	V_{RRM}	KV	Ta=25℃ I _R =1.0μA	15..0
Peak Working Revere Voltage	V_{RWM}	KV	Ta=25℃ I _R =1.0μA	15..0
Non-Repetitive Peak Reverse Voltage	V_{RSM}	KV	Ta=25℃ I _R =1.0μA	15..0
Average Forward Current	$I_{F(AV)}$	mA	50KHz Half-sine Wave , Resistance load @T _{break} =50℃	200
Reverse Recovery Time	trr	nS	I _F =50mA I _R =100mA I _{RR} =25mA	100
Surge Forward Current	I_{FSM}	A	0.01S @ Half-Sine wave 50Hz	20
Operating Ambient Temperature	T _a	℃		-40~+150
Storage Temperature	T _{stg}	℃		-40~+120

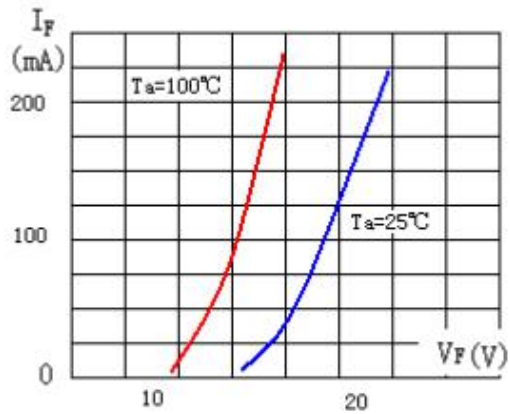
■ Electrical Characteristic (Ta=25℃ Unless otherwise specified)

Forward Peak Voltage	V_{FM}	V	@ Ta=40℃ I _F =0.2A	16
Peak Reverse Current	I_{RRM1}	μA	@ Ta=25℃ V _{RM} =V _{RRM}	2.0
	I_{RRM2}	μA	@ Ta=100℃ V _{RM} =V _{RRM}	30.0

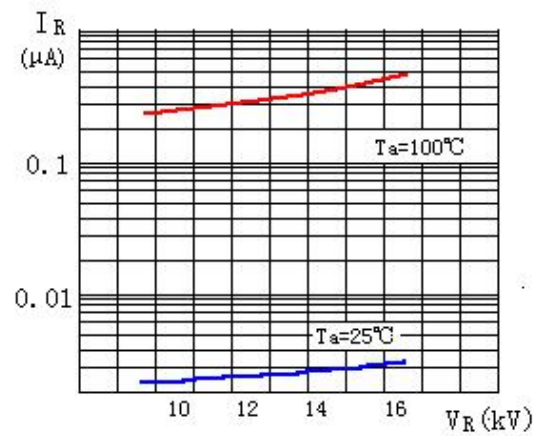
■ Outsize dimensions (Unit:mm)



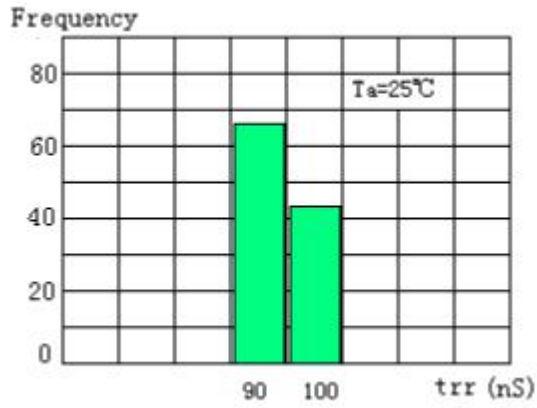
■ Characteristic Curve



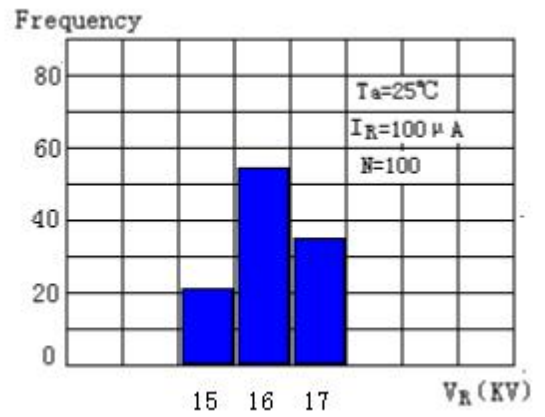
Forward Characteristics



Reverse Characteristics



Reverse Recovery Time Distribution



Avalanche Breakdown Voltage Distribution

■ Reverse Recovery Time Basic Test Circuit

