

High Voltage Diode

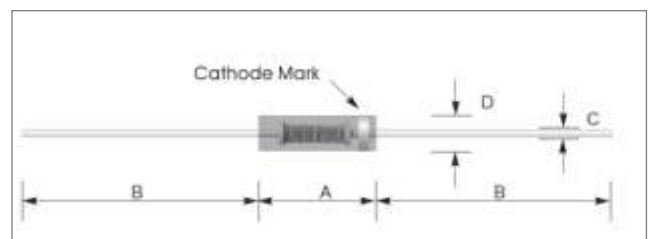
CL03-15T (15KV 450mA 70nS)

■ FEATURES

- Low leakage, low power, high surge
- Highly efficient reaction time
- Tj:-40°C~+130°C
- Polyimide passivation technology
- Epoxy resin molding, integrated encapsulation
- ROHS compliant



SYMBO	MIN		MAX	
	in	mm	in	mm
A	-	-	0.866	22
D	-	-	0.295	7.5
B	0.866	22	-	-
C	-	-	0.047	1.2



■ Absolute Maximum Ratings and Electrical Characteristics

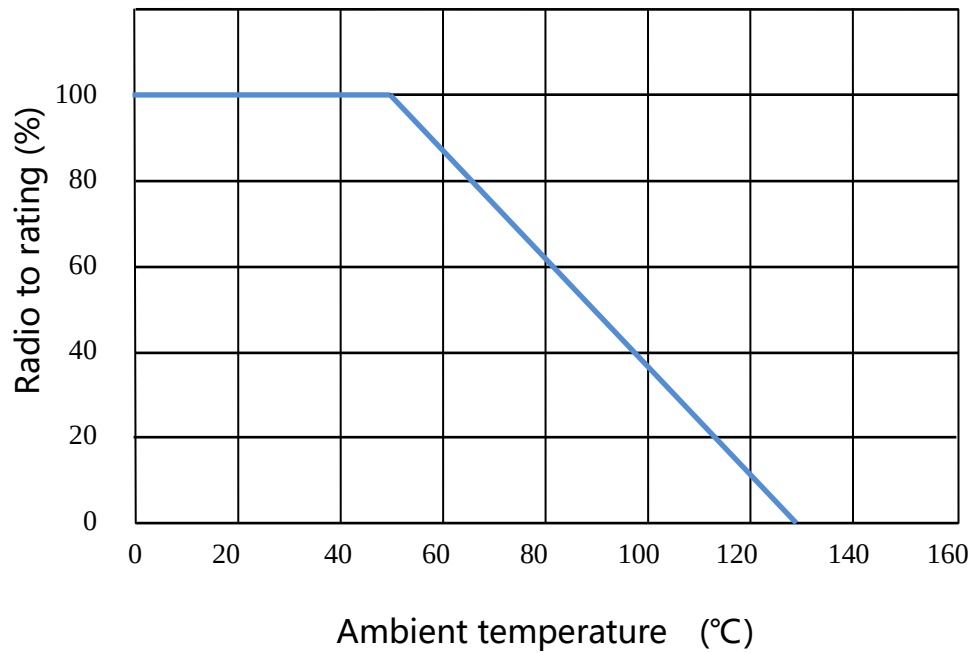
Item	Sym	Test Conditions	Rating	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		15	KV
Average Forward Current	$I_{F(AV)}$	$T_J=50^{\circ}\text{C}$ @ 50Hz sine-half wave Rectification Average Value	450	mA
Forward Surge Current	I_{FSM}	50Hz sine-half wave One shot	25.0	A
Forward Voltage Drop	V_{FM}	$I_F = I_{F(AV)}$	35.0	V
Reverse Recovery Time	trr	$I_F=50\text{mA}$, $I_R=-100\text{mA}$ $I_{RR}=-25\text{mA}$	70	nS
Normal Temperature Reverse Current	I_{RM1}	$V_R=V_{RRM}$	2.0	μA
High Temperature Reverse Current	I_{RM2}	$V_R=V_{RRM}$ @ $T_a=100^{\circ}\text{C}$	50.0	μA
Max. Junction Temperature	T_{Jmax}		130	$^{\circ}\text{C}$
Storage Temperature	Tstg		-40 ~ +175	$^{\circ}\text{C}$

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■ Derating of forward current for ambient temperature

(On condition of provision of a fin on cathode side air cooling)



■ List of component materials

NO.	Part name	Material and type name
1.	Lead wire	Sn clad Cu wire
2.	Molding resin	Epoxy Resin Equivalent to UL 94V-0