

Data Sheet

CL03-15 diode adopts high reliable mesa structure and diffusion craft, epoxy resin molded in a compact structure.

■ Features:

- Avalanche characteristic
- A variety of dimensions
- Epoxy resin vacuum packaging, anti-corrosion in the surface
- Tj: -40°C—+150°C

■ Applications:

- High frequency high voltage power rectifier
- Voltage doubling circuit
- High voltage power supply
- High voltage testing equipment

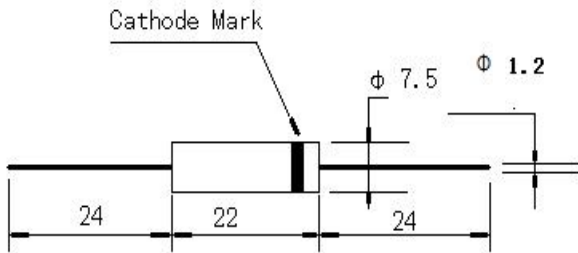
Maximum Ratings:

Parameters	Symbol	Unit	Conditions	Voltage
Repetitive Peak Reverse Voltage	V_{RRM}	KV	Ta=25°C I _R =0.02μA	15.0
Peak Working Reverse Voltage	V_{RWM}	KV	Ta=25°C I _R =0.02μA	15.0
Average Forward Current	I _{F(AV)}	mA	50Hz Half-sine Wave , Resistance load @T _{break} =50°C	500
Reverse Recovery Time	t _{rr}	nS	I _F =2mA I _R =4mA I _{RR} =1mA	100
Surge Forward Current	I _{FSM}	A	0.01S @ Half-Sine wave 50Hz	30
Operating Ambient Temperature	T _a	°C		-40~+150
Storage Temperature	T _{stg}	°C		-40~+125

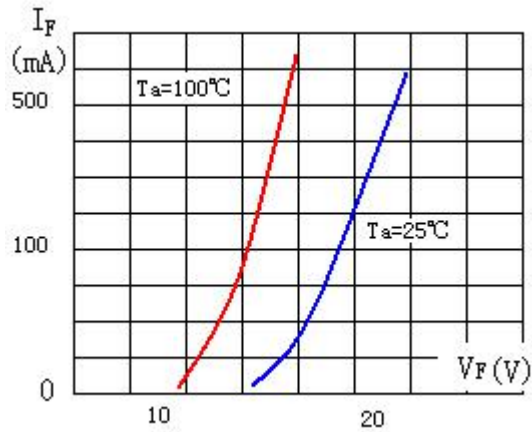
■ Electrical Characteristics (Ta=25°C Ta=25°C Special conditions aren't be included)

Forward Peak Voltage	V _{FM}	V	@ Ta=25°C I _F =0.5A	16.5
Peak Reverse Current	I _{RRM1}	μA	@ Ta=25°C V _{RM} =V _{RRM}	2.0max
	I _{RRM2}	μA	@ Ta=100°C V _{RM} =V _{RRM}	30max

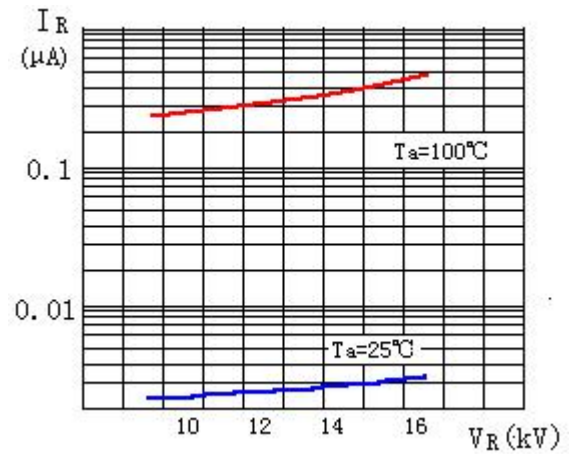
■ OUTLINE DRAWINGS (mm)



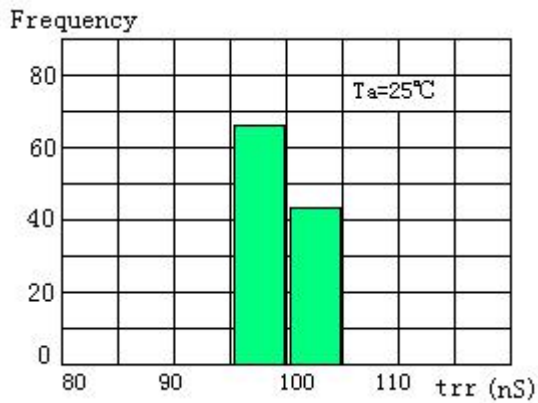
■ Characteristic Curve



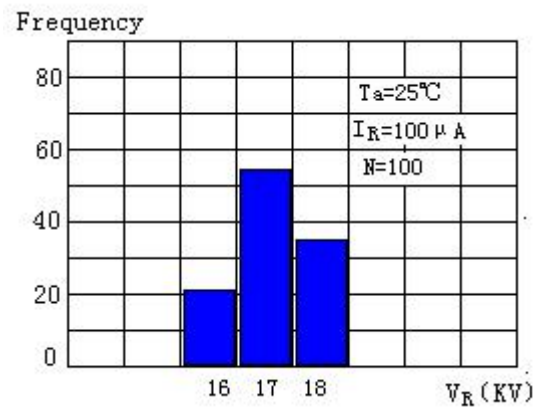
Forward Characteristics



Reverse Characteristics



Reverse Recovery Time Distribution



Avalanche Breakdown Voltage Distribution

■ Reverse Recovery Time Basic Test Circuit

