

■ Features

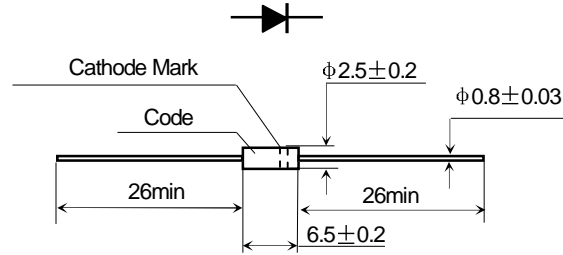
- Supersmall size
- High reliability


■ Applications

- Car ignition systems.

■ Outline Dimensions and Mark

Unit: mm



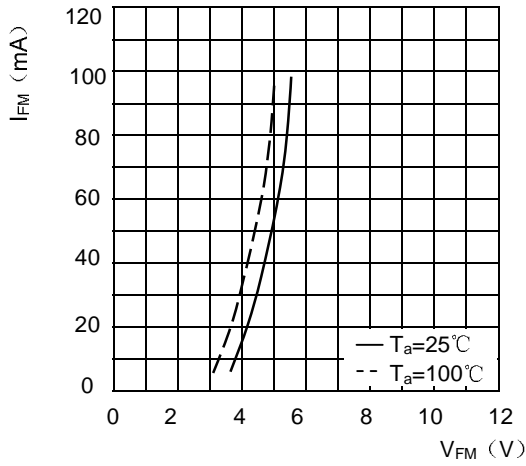
Type	Code	Cathode Mark
2CL0504	T0504	

■ Limiting Values (Absolute Maximum Rating)

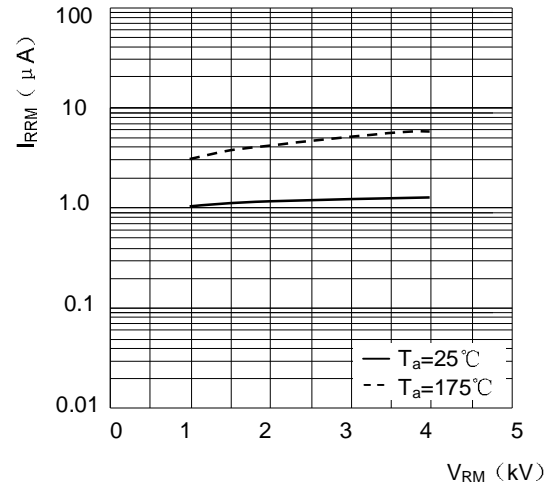
Item	Symbol	Unit	2CL0504
Repetitive Peak Reverse Voltage	V_{RRM}	KV	4
Non-Repetitive Peak Reverse Voltage	V_{RSM}	KV	4.4
Average Forward Current	$I_{F(AV)}$	mA	50 (50Hz Half-sine wave, Resistance load, $T_a=25^{\circ}C$)
Surge(Non-repetitive)Forward Current	I_{FSM}	A	3 (50Hz Half-sine wave, 1cycle, $T_a=25^{\circ}C$)
Surge Reverse current	I_{RSM}	mA	50 ($W_p=1ms$ triangular pulse)
Storage Temperature	T_{stg}	$^{\circ}C$	-65 ~ +175
Virtual Junction Temperature	$T_{(vj)}$	$^{\circ}C$	175

■ Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

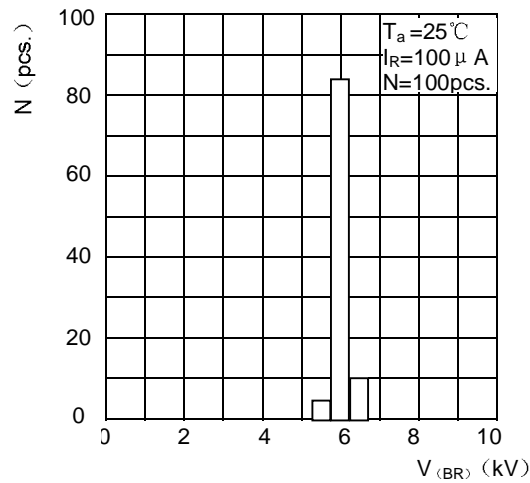
Item	Symbol	Unit	Test Condition	2CL0504	
Peak Forward Voltage	V_{FM}	V	$I_{FM}=10mA$	≤ 7	
Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}C$	≤ 2
	I_{RRM2}			$T_a=175^{\circ}C$	≤ 30
Avalanche breakdown voltage	$V_{(BR)}$	kV	$I_{RM}=100 \mu A$	≥ 5.5	
Thermal resistance	$R_{(th) J-A}$	k/W	($T_{amb}=T_{lead}$, lead length=10mm)	≤ 100	

■ Characteristics(Typical)


Forward Characteristics



Reverse Characteristics



Breakdown Voltage Distribution