

Features

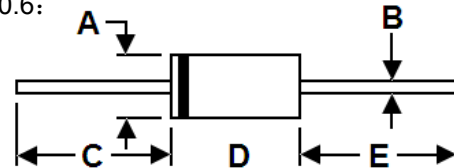
- * Super small size
- * High reliability
- * High speed switching
- * Component in accordance to ROHS 2002/95/EC and WEEE2002/96/WC
- * Surge overload rating to 0.5 amperes peak



RoHS
COMPLIANT

Package Outline Dimensions

①3X8,Φ0.6:



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	2.8	3.2	0.110	0.126
B	0.57	0.63	0.022	0.025
C	25.4	-	1.0	-
D	7.8	8.2	0.307	0.323
E	25.4	-	1.0	-

Mechanical Data

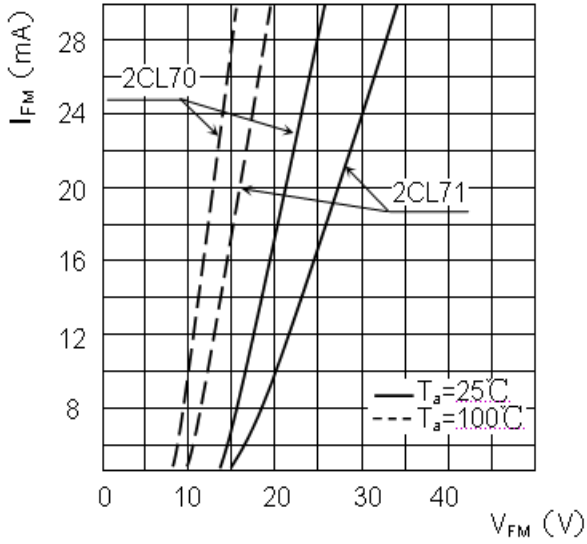
- * Case: Molded plastic

Maximum Ratings and Electrical Characteristics

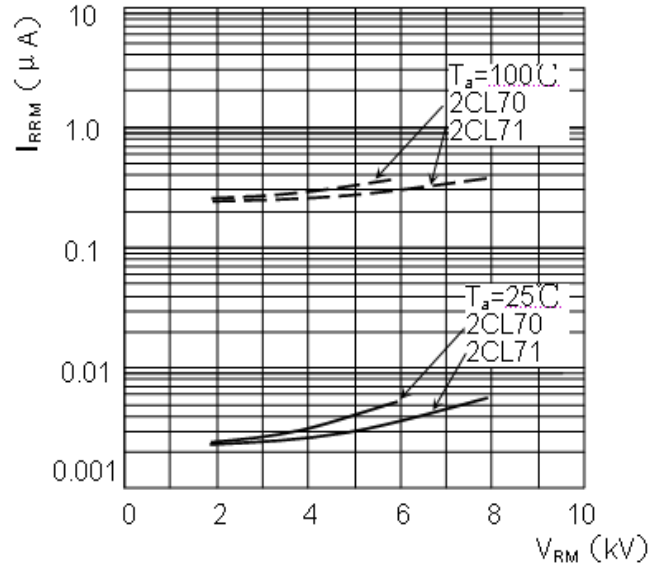
Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbol	2CL70	2CL71	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	6	8	KV
Non-Repetitive Peak Reverse Voltage	V_{RMS}	8	10	KV
Average Forward Current	$I_{F(AV)}$	5		mA
Surge(Non-repetitive)Forward Current	I_{FSM}	0.5		A
Operating Ambient Temperature	T_a	-40 ~ +100		°C
Storage Temperature	T_{stg}	-40 ~ +120		°C
Virtual Junction Temperature	$T(vj)$	120		°C
Max Peak Forward Voltage @ $I_{FM}=10mA$	V_{FM}	24	30	V
Max Peak Reverse Current ($T_a=25^{\circ}C; V_{RM}=V_{RRM}$)	I_{RRM1}	2		μA
Max Peak Reverse Current ($T_a=100^{\circ}C; V_{RM}=V_{RRM}$)	I_{RRM2}	5		μA
Max Reverse Recovery Time ($I_F=2mA$ $I_{RM}=4mA$)	trr	0.08		μS

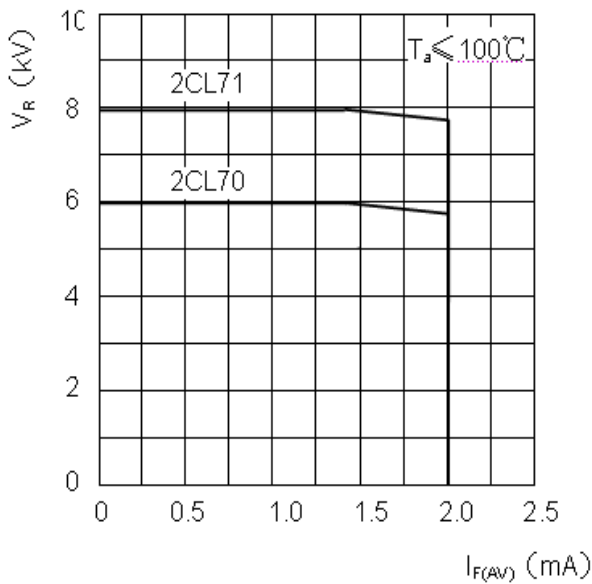
Ratings and Characteristic Curves



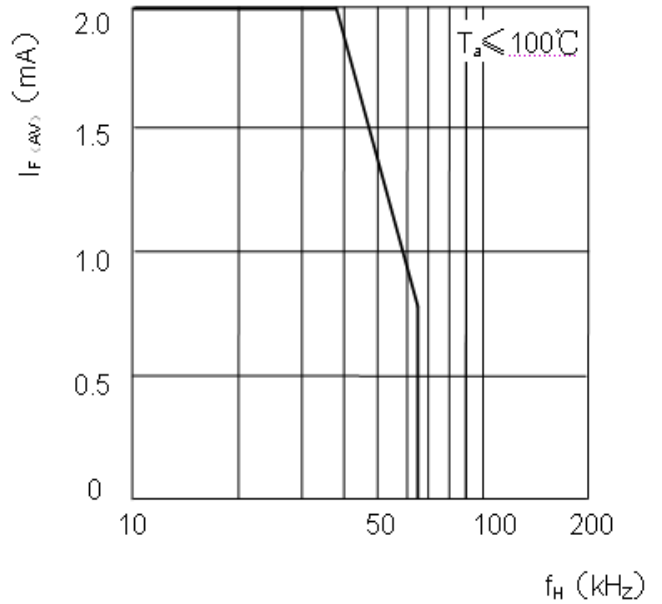
Forward Characteristics



Reverse Characteristics



$V_R - I_{F(AV)}$ Curve



$I_{F(AV)} - f_H$ Curve



2CL70 & 2CL71

Fast Recovery High Voltage Diodes

Ordering Information

Part No.	Package	Packing
2CL70/2CL71	3X8, Φ 0.6	3K/AMMO box