SHI LING®

ZHEJIANG SHILING SEMICONDUCTOR CO.,LTD.

Specifcation of products

UK400100CT

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Ultra!Fast Soft Recovery Diode Module

Description

Ultra!FRD module devices are optimized to reduce losses and EMI/RFI in high frequency power conditioning electrical systems. These diode modules are ideally suited for power converters, motors drives and other applications where switching losses are significant portion of the total losses.

Features

- Repetitive Reverse Voltage: V_{RRM} 600V
- Low Forward Voltage Drop: V_F(typ.) 1.5V
- Average Forward Current: $I_{F(AV)}$ 60A @ T_C 100°C
- Ultra!Fast Reverse Recovery Time: t_{rr}(typ.) 35 ns
- Extensive Characterization of Recovery Parameters
- Reduced EMI and RFI
- Non Isolation Type Package

Applications

Motor Drives, Free wheeluse, High Power Converters, Welders, Various Switching and Telecommunication Power Supply

Absolute Maximum Ratings T_J = 25°C (Per Leg)

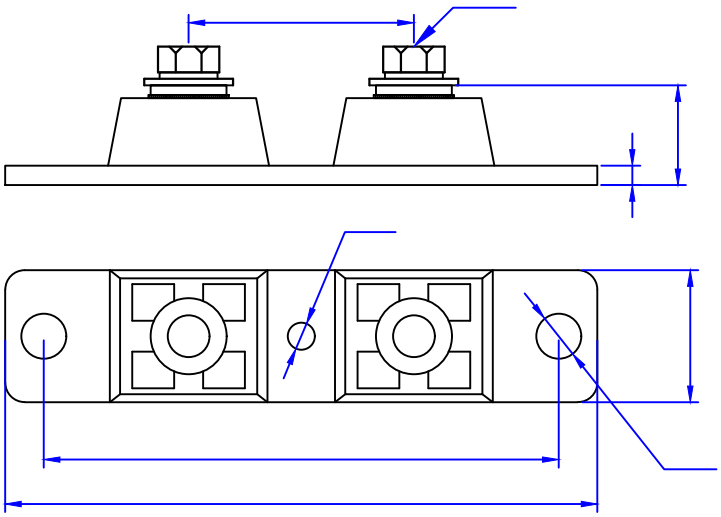
Symbol	Parameter	Conditions	Ratings	Unit

Thermal Characteristics

Symbol	Parameter	Conditions	Values			Unit
			Min"	Typ"	Max"	
$R_{th(j!c)}$	ThermalResistance	Junctionto Case	!	!	'"&'	4W

Electrical Characteristics + T_j %.- (unless otherwise speci ed)

Symbol	Parameter	Conditions		Values			Unit
				Min"	Typ"	Max"	
V_R	CathodeAnodeBreakdown Voltage	I_R% &''uA		&''	!	!	V
V_{FM}	MaximumForward Voltage	I_{FM}% 0''A# T_c % .-		!	&"'	&"&	V
		I_{FM} % 0''A# T_c %&''		!	'"5	'"/	V
I_{RRM}	Repetitive Peak Reverse Current	TC% &'' # V_{RRM} applied		!	!	&'"'	mA
t_{rr}	Reverse RecoveryTime	I_{FM}% 0''A# V_R % &-'V di4dt%!&00A4us	T_C % .-	!	,-	&''	ns
			T_C % &''	!	&/'	!	ns





$ Typical Reverse Recovery Time vs" !di4dt