SHI LING® 浙江世菱半导体有限公司
ZHEJIANG SHILING SEMICONDUCTOR CO.,LTD.

Specifcation of products

：

：MURP400200CI

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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}=200V
- ☞ Low Forward Voltage Drop : V_F (typ.) = 1.0V
- ☞ Average Forward Current : $I_{F(AV.)}$ = 400A @ Tc= 100 ℃
- ☞ Ultra-Fast Reverse Recovery Time : t_{rr}(typ.) = 95 ns
- ☞ Extensive Characterization of Recovery Parameters
- ☞ Reduced EMI and RFI
- ☞ Non Isolation Type Package

Applications

Motor Drives, Free wheel use, High Power Converters, Welders, Various Switching and Telecommunication Power Supply.

Absolute Maximum Ratings @ T_j=25℃ (Per Leg)

Symbol	Parameter	Conditions	Ratings	Unit
V_{RRM}	Repetitive Peak Reverse VA			
$V_{R(DC)}$				
$I_{F(AV)}$				
I_{FSM}				
I^2t				
T_j T_{stg} P_d				
–				
–				

Thermal Characteristics

Performance Curves

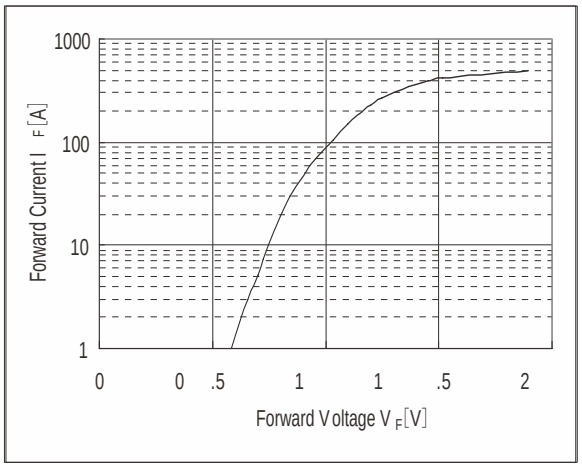


Fig. 1 : Typical Forward Voltage Drop vs. Instantaneous Forward Current

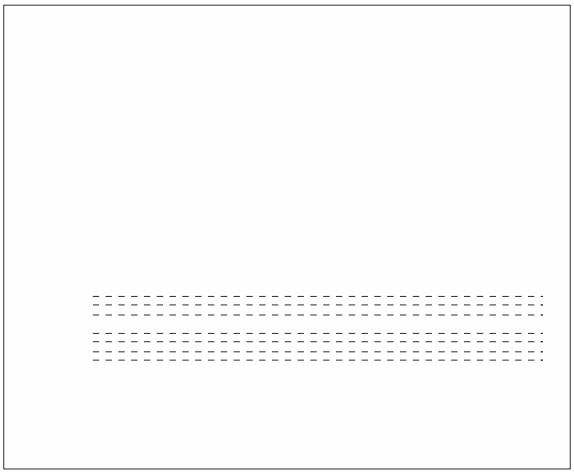


Fig. 2 : Typical Reverse Recovery Time vs. -di/dt