# ٍ ن Ӭ

# Specifcation of products

## MURP100100CI

Ж ʿ x ّ ه
ZHEJIANG SHILING SEMICONDUCTOR CO.,LTD.

Ж ƃ ٮ̤
Ж Є 0578 S 3615066
Ж 323000
E-mail:smrshiling12@163.com
Http//www.smrshiling.com

| | | |
|---|---|---|
| ⅃ | | 8 |
| | ’ ₩ | ▫ |

گ Ж 02 Ж 2026.5

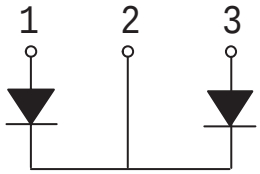
# Ultra Fast Soft Recovery Diode Module

## 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 V



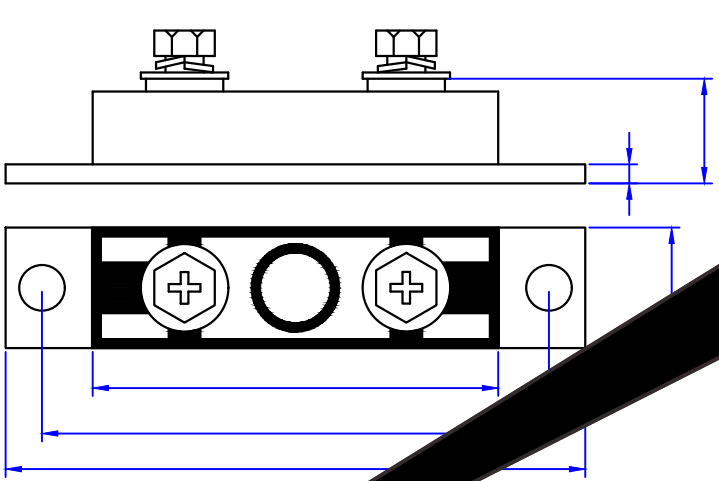
## Thermal Characteristics

| Symbol | Parameter | Conditions | Values | | | Unit |
|---|---|---|---|---|---|---|
| | | | Min% | Typ% | Max% | |
| $R_{th\$j\ c\&}$ | Thermal Resistance | Junction to Case | | | #%"# | ℃3W |

## Electrical Characteristics ( $T_j$! )*℃$unlessotherwise specified&

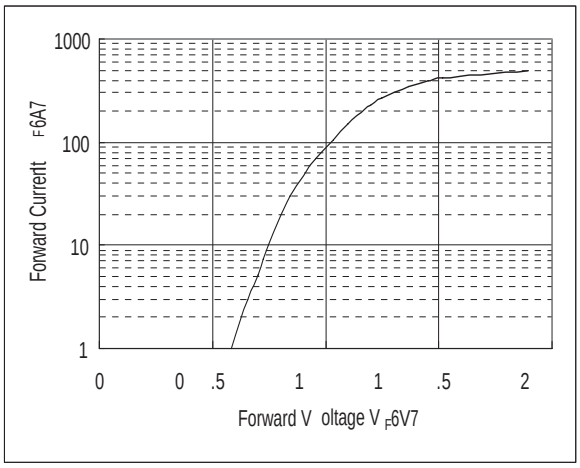
| Symbol | Parameter | Conditions | | Values | | | Unit |
|---|---|---|---|---|---|---|---|
| | | | | Min% | Typ% | Max% | |
| $V_R$ | Cathode Anode Breakdown Voltage | $I_R$! "##uA | | "## | | | V |
| $V_{FM}$ | Maximum Forward Voltage | $I_{FM}$! -##A. $T_c$! )*℃ | | | "%# | "%" | V |
| | | $I_{FM}$! -##A. $T_c$ !"##℃ | | | #%4 | #%, | V |
| $I_{RRM}$ | Repetitive Peak Reverse Current | TC! "##℃ . $V_{RRM}$ applied | | | | "#%# | mA |
| $t_{rr}$ | Reverse RecoveryTime | $I_{FM}$! "##A. $V_R$! "*#V di3dt! "00A3us | $T_c$! )*℃ | | 5* | 4# | ns |
| | | | $T_c$! "##℃ | | "## | | ns |

Package Outlines

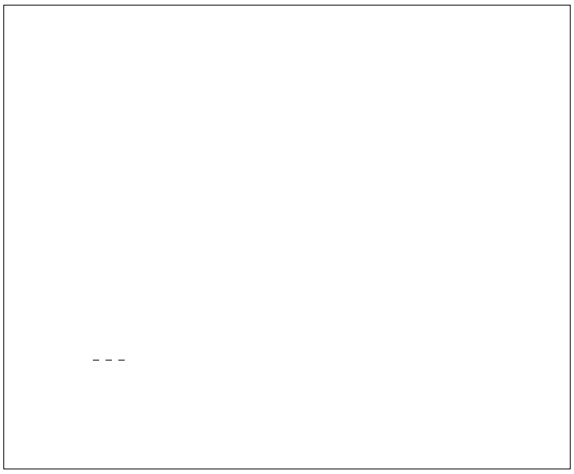


Unit:mm

## Performance Curves




**Fig% " ' Typical Forward Voltage Drop vs% Instantaneous Forward Current**



**Fig% ) ' Typical Reverse Recovery Time vs% di3dt**