

■ Features

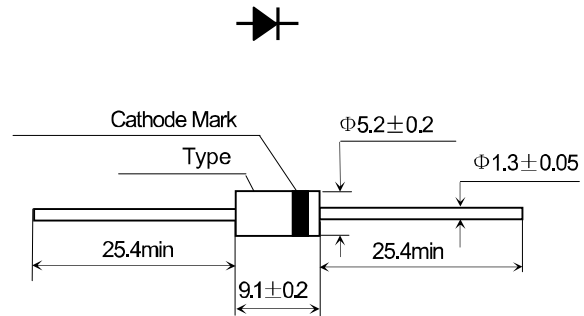
- $I_F(AV)$ 5.0A
- V_{RRM} 1500V
- $t_{rr} \leq 2.0 \mu s$
- High reliability

■ Applications

- Damping in Horizontal Scanning Circuits

■ Outline Dimensions and Mark

Unit: mm

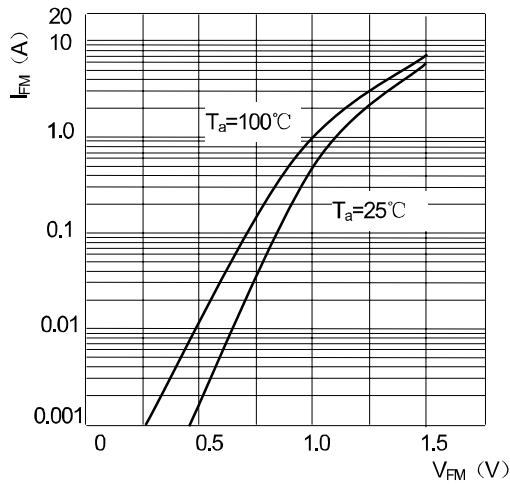

■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	TBY228
Repetitive Peak Reverse Voltage	V_{RRM}	V	1500
Peak Working Reverse Voltage	V_{RWM}	V	1500
Non-Repetitive Peak Reverse Voltage	V_{RSM}	V	1600
Average Forward Current	$I_{F(AV)}$	A	5.0 (50Hz Half-sine wave, Resistance load, $T_{break}=50^{\circ}C$)
Surge(Non-repetitive)Forward Current	I_{FSM}	A	50 (50Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}C$)
Junction and Storage Temperature	T_j, T_{stg}	$^{\circ}C$	-40 ~ +150
Operating Ambient Temperature	T_a	$^{\circ}C$	-40 ~ +150

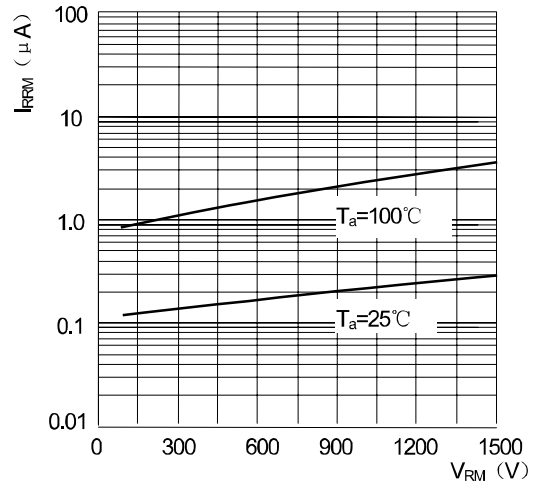
■ Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=5.0A$	1.5
Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$ $T_a=25^{\circ}C$	10
	I_{RRM2}		$T_a=100^{\circ}C$	150
Reverse Recovery Time	t_{rr}	μs	$I_F=0.5A$ $I_{RM}=1A$ $I_{RR}=0.25A$	2.0
Thermal Resistance (Typical)	$R_{\theta J-A}$	$^{\circ}C/W$	Between junction and ambient	20
	$R_{\theta J-L}$		Between junction and lead	10

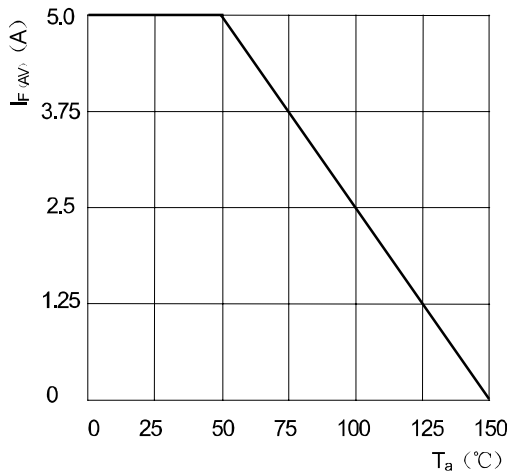
■ Characteristics(Typical)



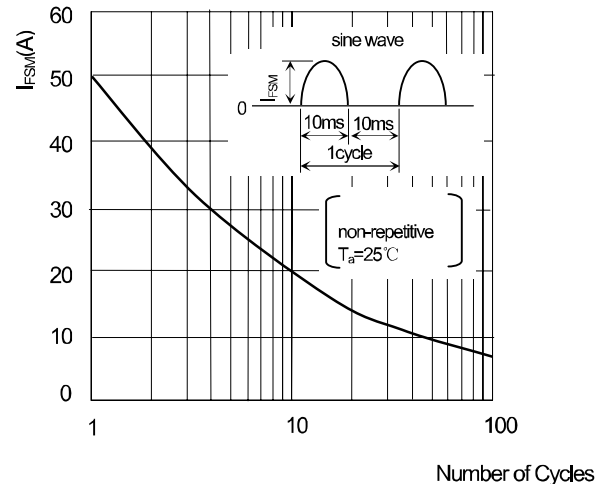
Forward Characteristics



Reverse Characteristics



$I_{F(AV)} - T_a$ Derating



Surge Forward Current Capability

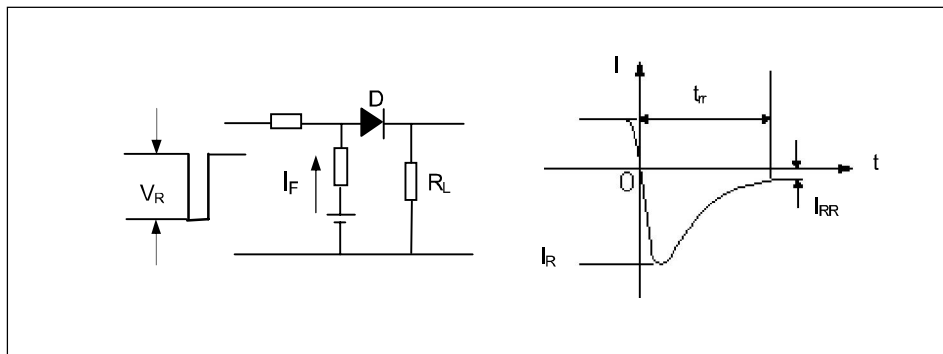


Diagram of Circuit and Testing Wave form of Reverse Recovery Time t_r