

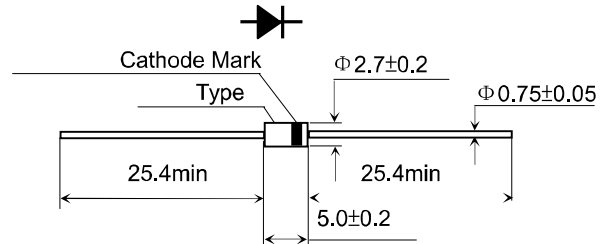
■ Features

- $I_F(AV)$ 1.0A
- V_{RRM} 50V~1000V
- High reliability
- $T_{rr}① \leq 50ns, 75ns$
- Halogen Free product

■ Applications

■ Outline Dimensions and Mark

Unit: mm



■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	TUF						
			4001F	4002F	4003F	4004F	4005F	4006F	4007F
Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Peak Working Reverse Voltage	V_{RWM}	V	50	100	200	400	600	800	1000
Non-Repetitive Peak Reverse Voltage	V_{RSM}	V	75	150	220	440	660	880	1100
Average Forward Current	$I_{F(AV)}$	A	1.0 (50Hz Half-sine wave, Resistance load, $T_{break}=50^{\circ}C$)						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	30 (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						
					TUF						
					4001F	4002F	4003F	4004F	4005F	4006F	4007F
Peak Forward Voltage	V _{FM}	V	I _{FM} =1.0A		1.0			1.7			
Peak Reverse Current	I _{RRM1}	μ A	V _{RM} =V _{RRM}	T _a =25℃	10						
	T _a =100℃			150							
Reverse Recovery Time	t _{rr} ①	ns	I _F =0.5A I _{RM} =1A I _{RR} =0.25A		50			75			
Thermal Resistance (Typical)	R _{θ J-A}	℃/W	Between junction and ambient		55						
	R _{θ J-L}		Between junction and lead		25						

■ Characteristics(Typical)

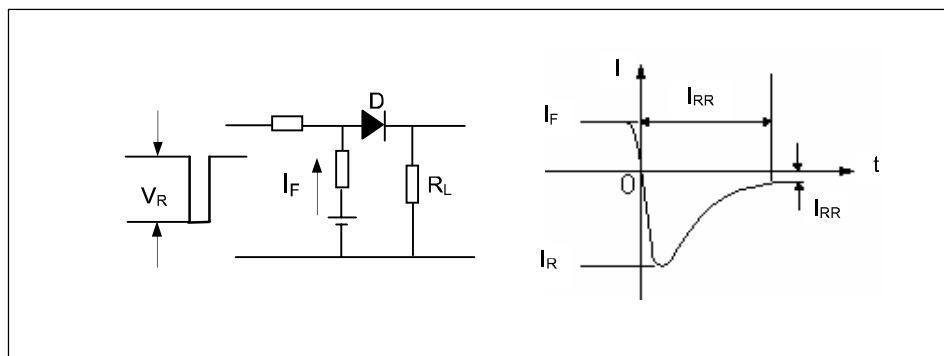
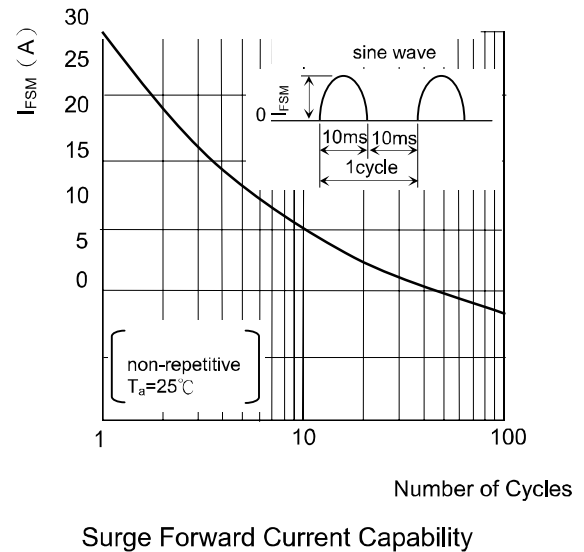
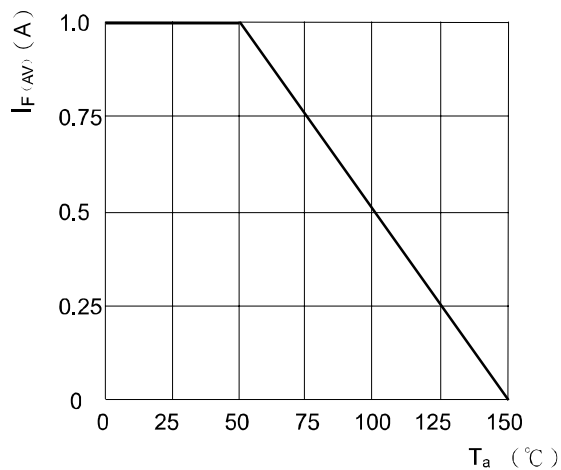
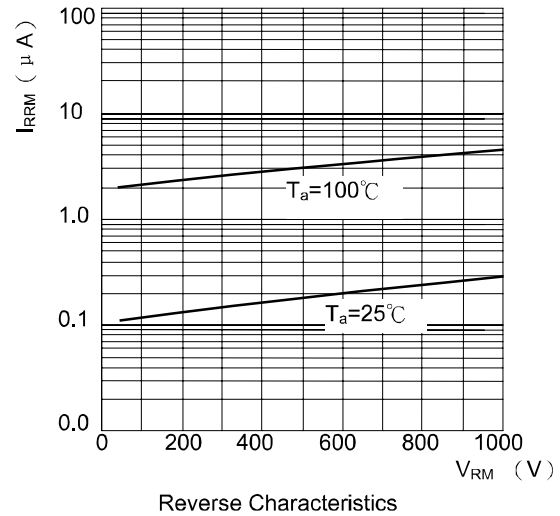
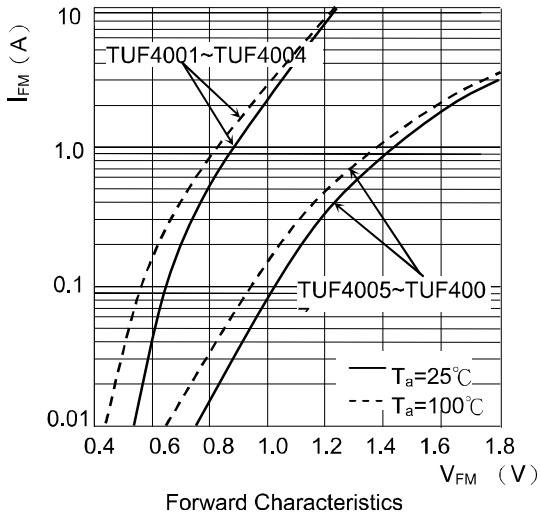
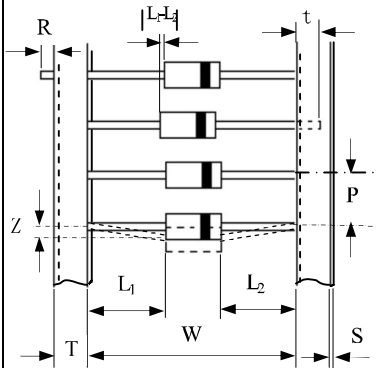
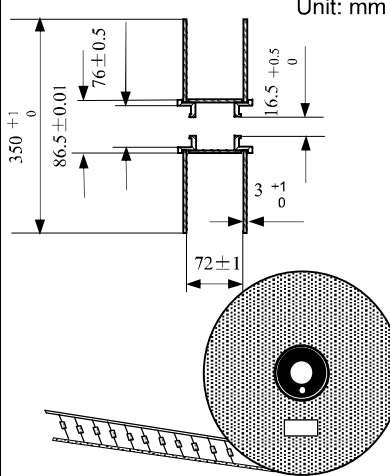
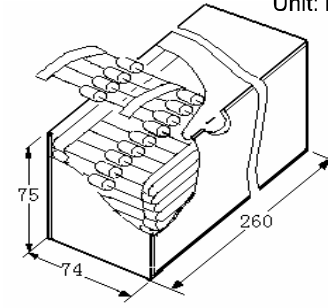
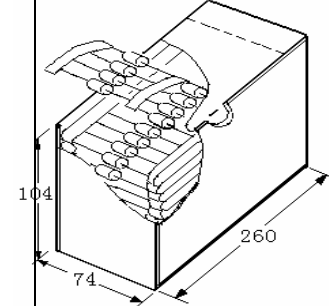


Diagram of Circuit and Testing Wave form of Reverse Recovery Time t_{rr}

Packing Illustration

Type	Mode	Quantity			Method																		
		Fig.① Fig.②	Fig.③	Fig.④																			
Tapping		4000 kpcs/ reel	—	—																			
	<table><tr><th>Symbol</th><th>mm Dimension</th></tr><tr><td>W</td><td>52±1</td></tr><tr><td>T</td><td>6±1</td></tr><tr><td>R</td><td>≤0.8</td></tr><tr><td>P</td><td>5/10±0.5</td></tr><tr><td> L1-L2 </td><td>≤1</td></tr><tr><td>Z</td><td>≤1.2</td></tr><tr><td>t</td><td>≥3.2</td></tr><tr><td>S</td><td>≤0.8</td></tr></table>	Symbol	mm Dimension	W	52±1	T	6±1	R	≤0.8	P	5/10±0.5	L1-L2	≤1	Z	≤1.2	t	≥3.2	S	≤0.8	2000 kpcs/ box	1000 kpcs/ box	—	
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Z	≤1.2																						
t	≥3.2																						
S	≤0.8																						
		2000 kpcs/ box	—	—																			
Bulk		2000 kpcs/ box	2000 kpcs/ box	7500 kpcs/ box	