

Silicon planer type (cathode common)

For high-frequency rectification

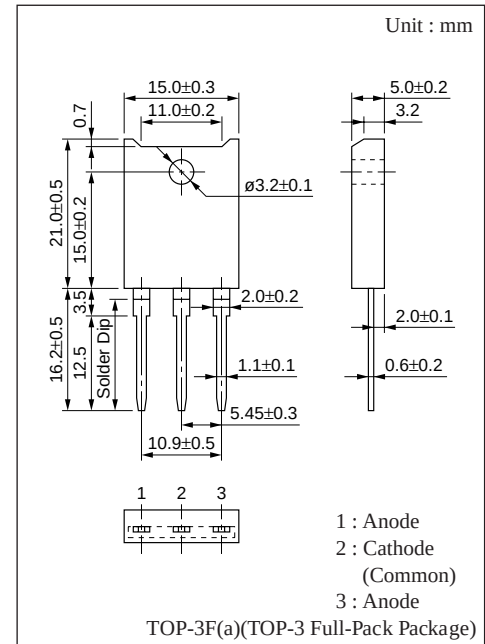
■ Features

- Cathode common dual type
- High reverse voltage V_R
- Low forward voltage V_F
- Fast reverse recovery time t_{rr}

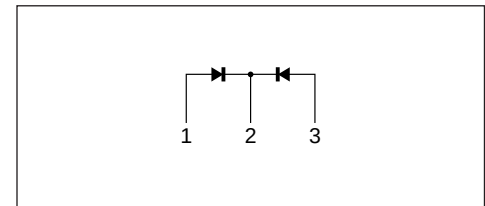
■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	400	V
Non-repetitive peak reverse voltage	V_{RSM}	400	V
Average forward current	$I_{F(AV)}$	20	A
Non-repetitive peak forward surge current	I_{FSM}^*	120	A
Junction temperature	T_j	- 40 to +150	°C
Storage temperature	T_{stg}	- 40 to +150	°C

* Sine half wave : 10ms/cycle



■ Internal Connection

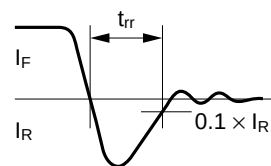
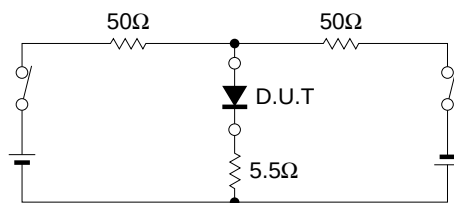


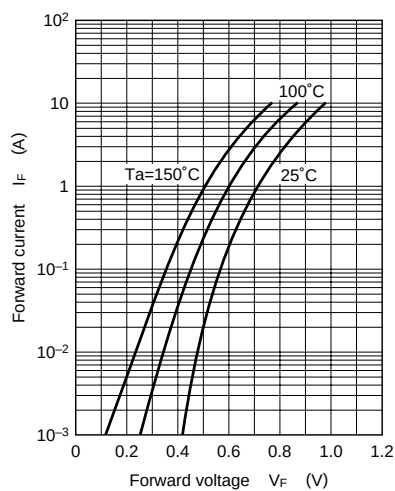
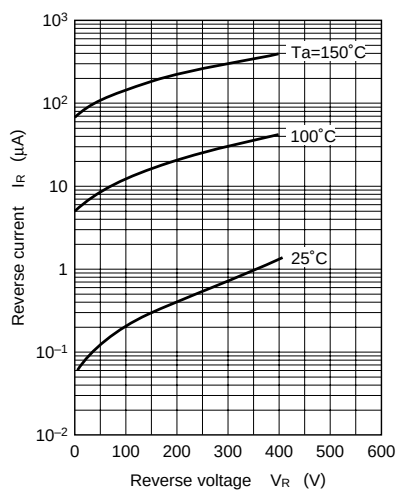
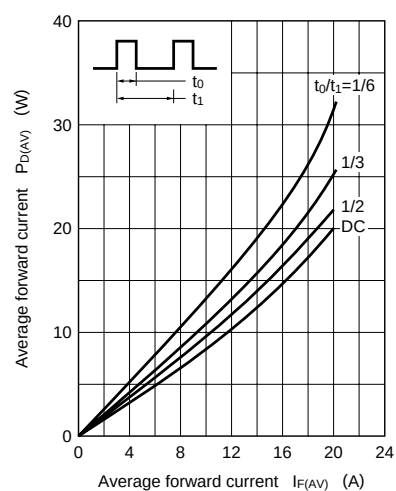
■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Repetitive peak reverse current	I_{RRM1}	$V_{RRM}= 400V, T_C= 25^{\circ}C$			50	μA
	I_{RRM2}	$V_{RRM}= 400V, T_J=150^{\circ}C$			10	mA
Forward voltage (DC)	V_F	$I_F=10A, T_C= 25^{\circ}C$			1	V
Reverse recovery time	t_{rr}^{*}	$I_F=1A, I_R=1A$			100	ns
Thermal resistance	$R_{th(j-c)}$	Flat direct current between junction and case			1.5	$^{\circ}C/W$
	$R_{th(j-a)}$				41.6	$^{\circ}C/W$

Note 1. Rated input/output frequency : 10MHz

2. * t_{IT} measuring circuit



$I_F - V_F$  $I_R - V_R$  $P_{D(AV)} - I_{F(AV)}$  $I_{F(AV)} - T_C$ 