

●Serise

Standard Fast Recovery

●Application

General rectification

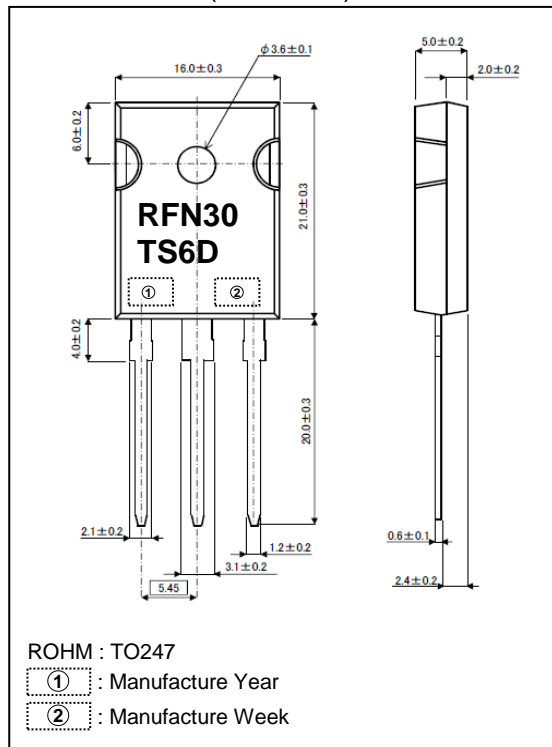
●Features

- 1) Low switching loss
- 2) Low forward voltage
- 3) High current overload capacity

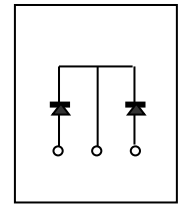
●Construction

Silicon epitaxial planar type

●Dimensions (Unit : mm)



●Structure



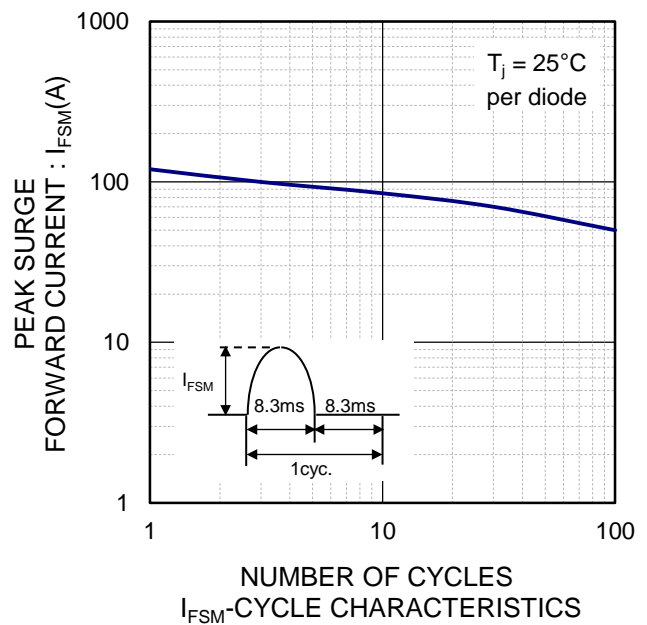
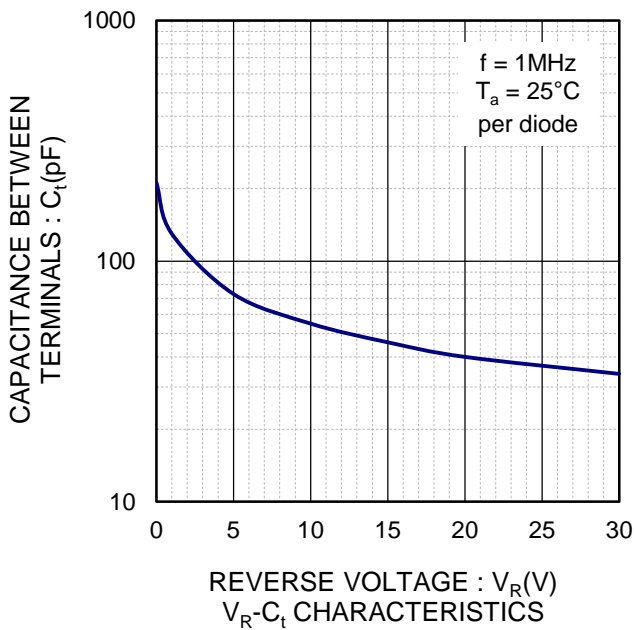
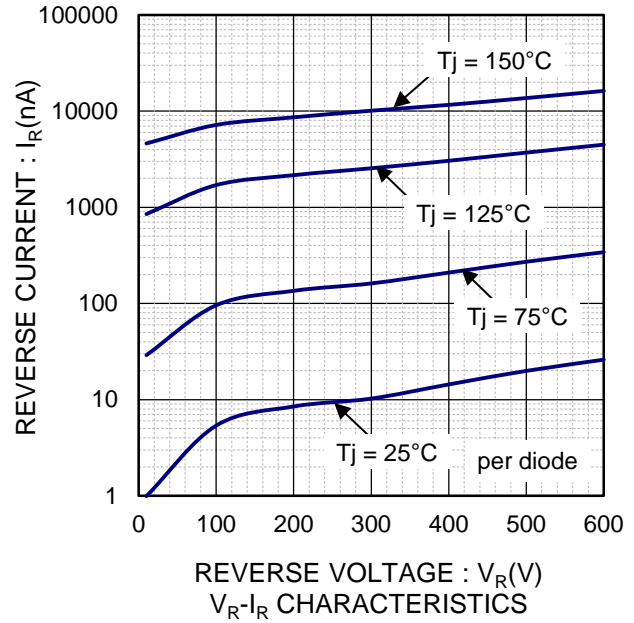
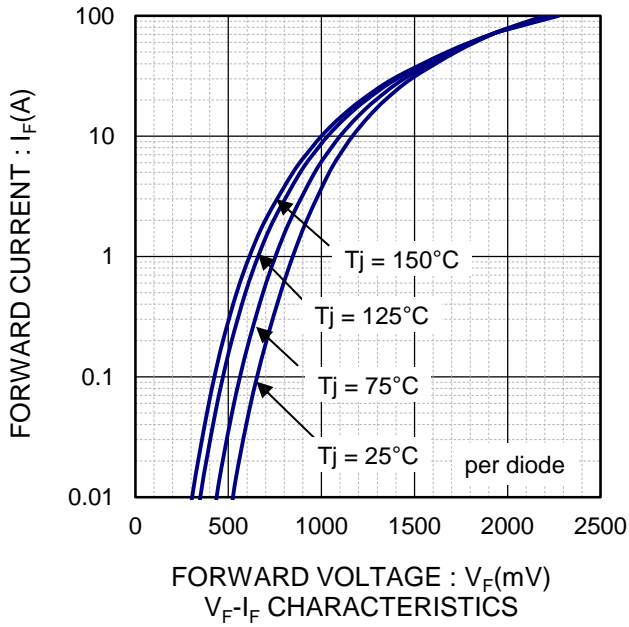
●Absolute maximum ratings ( $T_a=25^{\circ}\text{C}$ )

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	$V_{RM}$	Duty $\leq 0.5$	600	V
Reverse voltage	$V_R$	Direct voltage	600	V
Average current	$I_o$	60Hz half sin wave, Resistive load, 1/2 $I_o$ per diode	30	A
Non-repetitive forward surge current	$I_{FSM}$	60Hz half sin wave, Non-repetitive at $T_j=25^{\circ}\text{C}$ , per diode	120	A
Operating junction temperature	$T_j$	-	150	$^{\circ}\text{C}$
Storage temperature	$T_{stg}$	-	-55 to +150	$^{\circ}\text{C}$

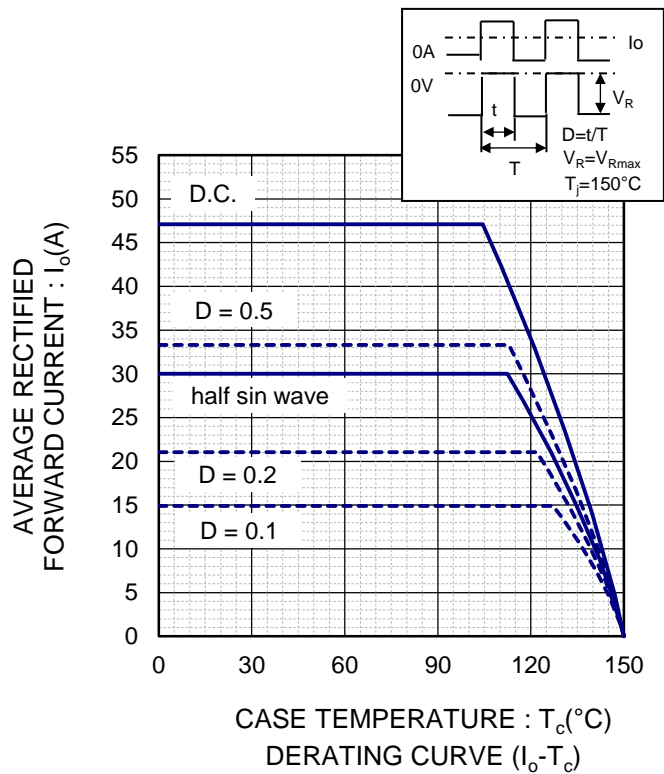
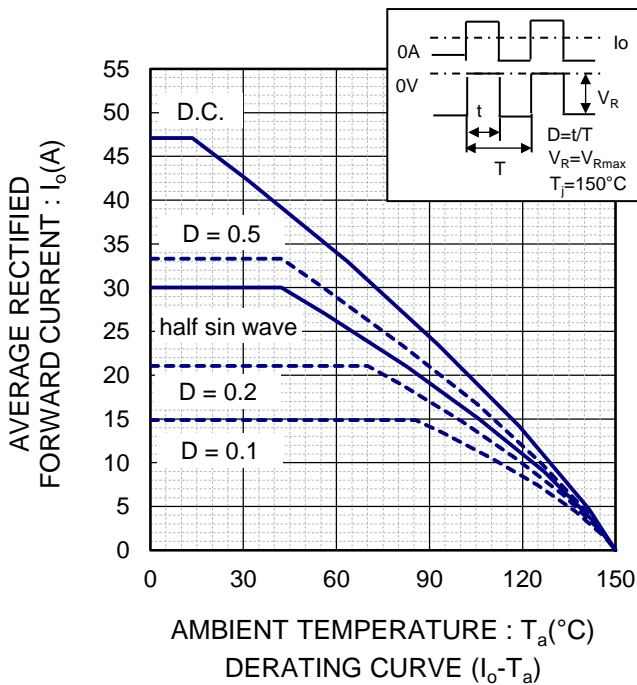
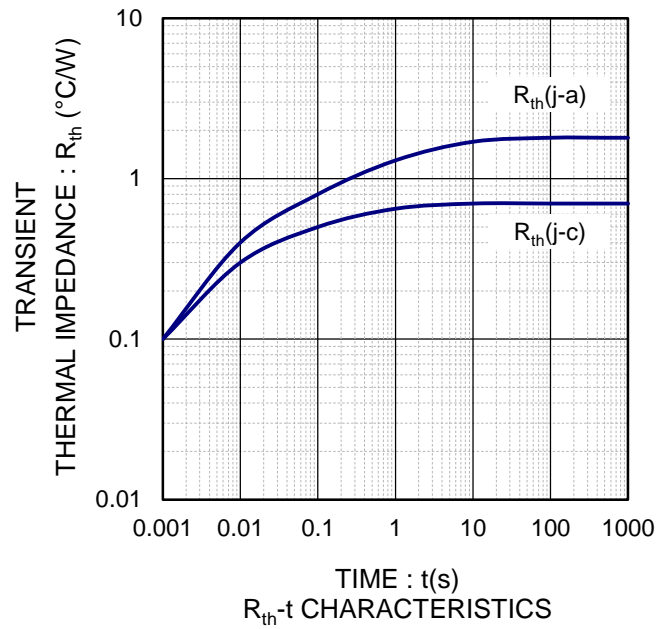
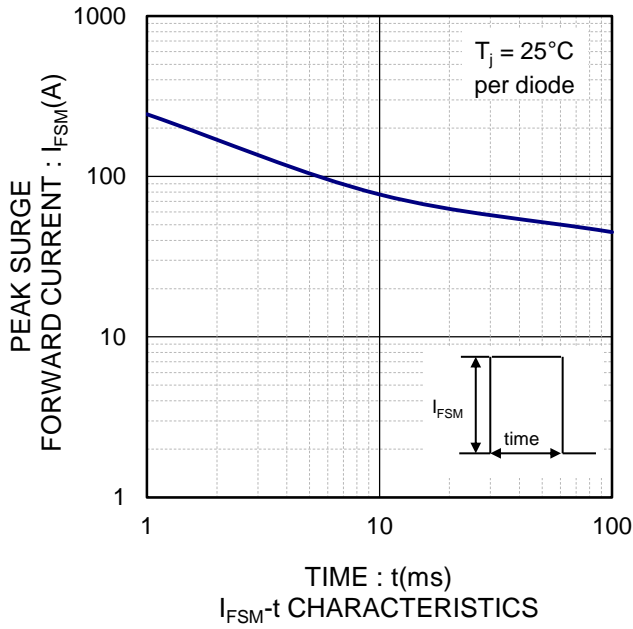
●Electrical characteristics ( $T_j = 25^{\circ}\text{C}$ , per diode)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	$V_F$	$I_F=15\text{A}$	1.0	1.25	1.55	V
Reverse current	$I_R$	$V_R=600\text{V}$	-	0.05	10	$\mu\text{A}$
Reverse recovery time	trr	$I_F=0.5\text{A}, I_R=1\text{A}, I_{rr}=0.25 \times I_R$	-	30	55	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	-	-	0.7	$^{\circ}\text{C} / \text{W}$

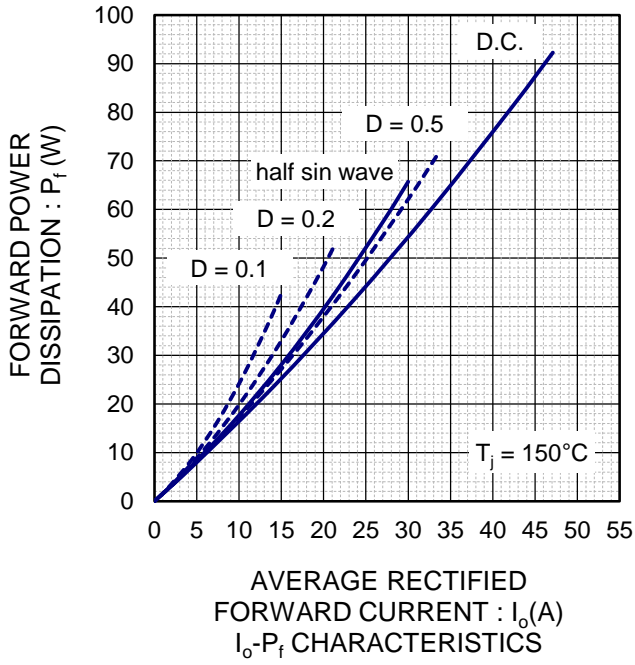
●Electrical characteristic curves



●Electrical characteristic curves



●Electrical characteristic curves



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