

#### ●Series

Standard Fast Recovery

#### ●Application

General rectification

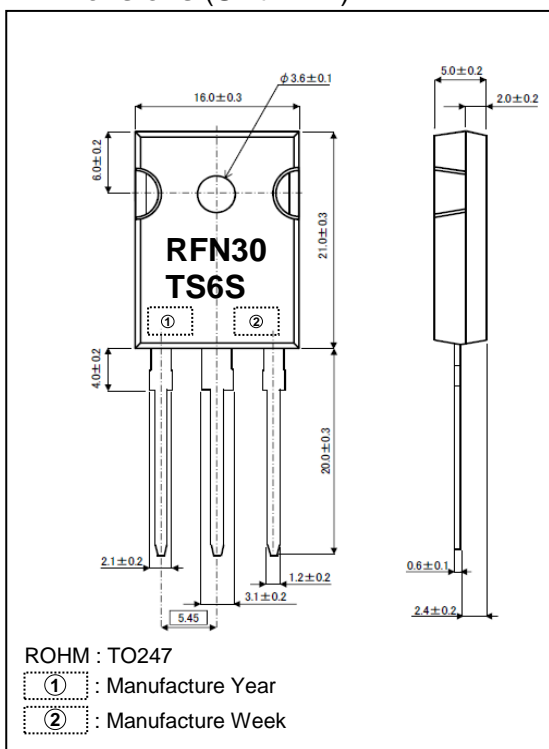
#### ●Features

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

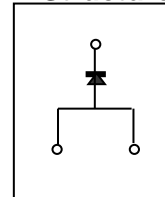
#### ●Construction

Silicon epitaxial planar type

#### ●Dimensions (Unit : mm)



#### ●Structure



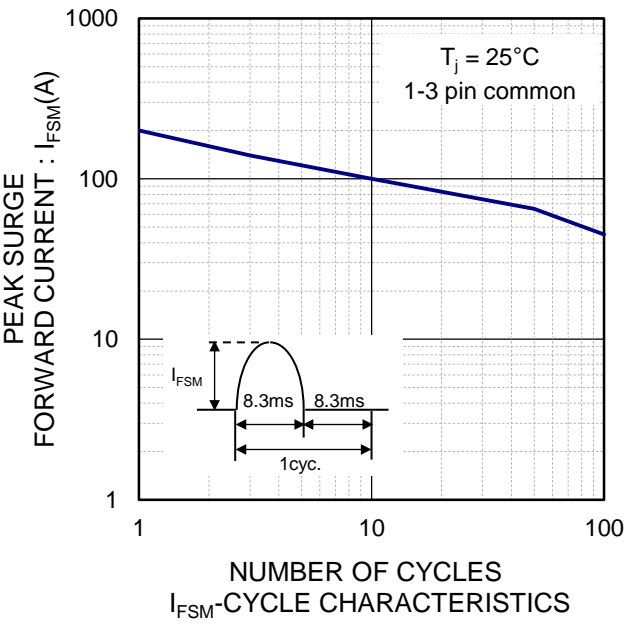
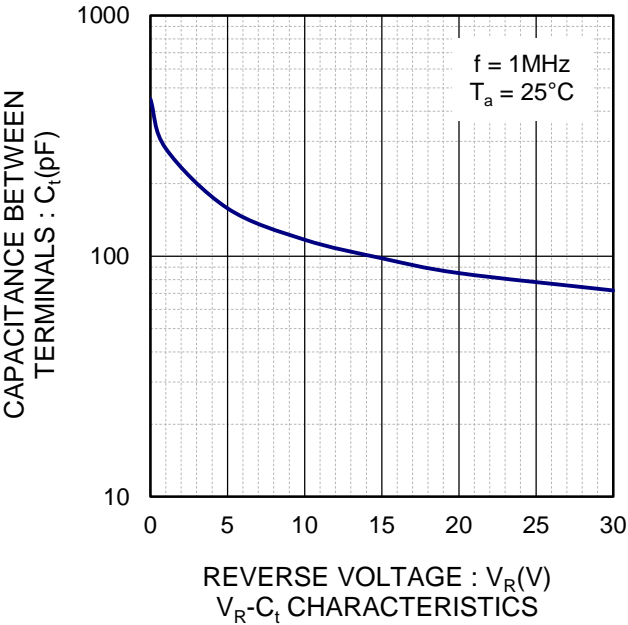
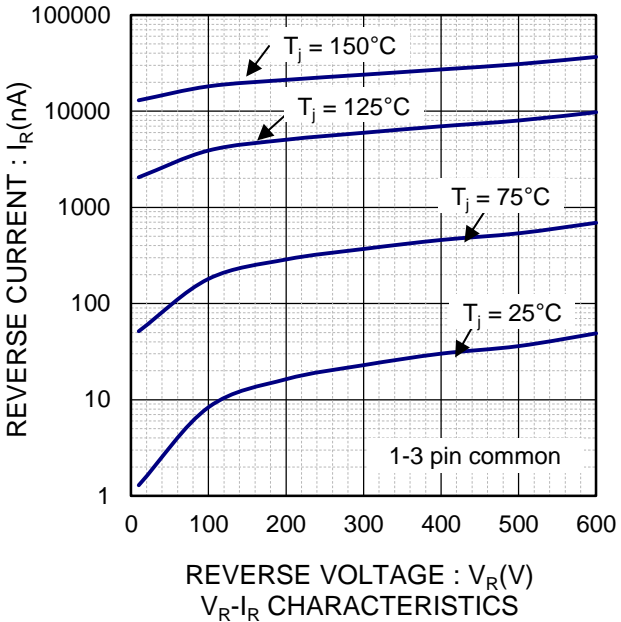
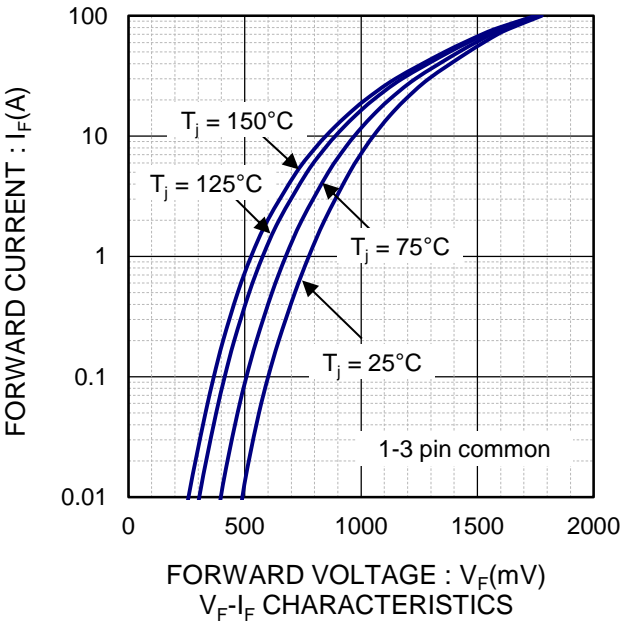
#### ●Absolute maximum ratings ( $T_a = 25^\circ\text{C}$ )

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	30	A
Non-repetitive forward surge current	$I_{FSM}$	60Hz half sin wave, Non-repetitive at $T_j = 25^\circ\text{C}$ , 1-3 pin common	200	A
Operating junction temperature	$T_j$	-	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-	-55 to +150	$^\circ\text{C}$

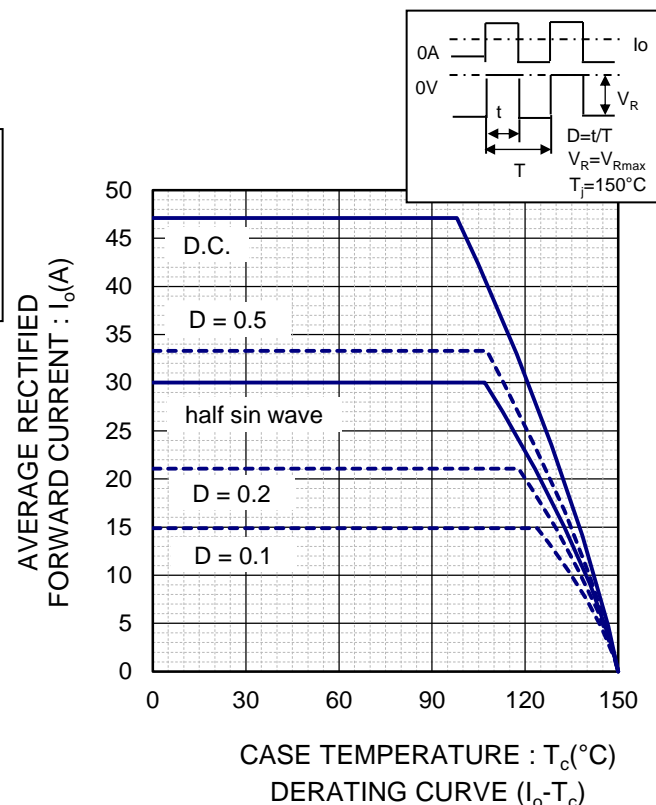
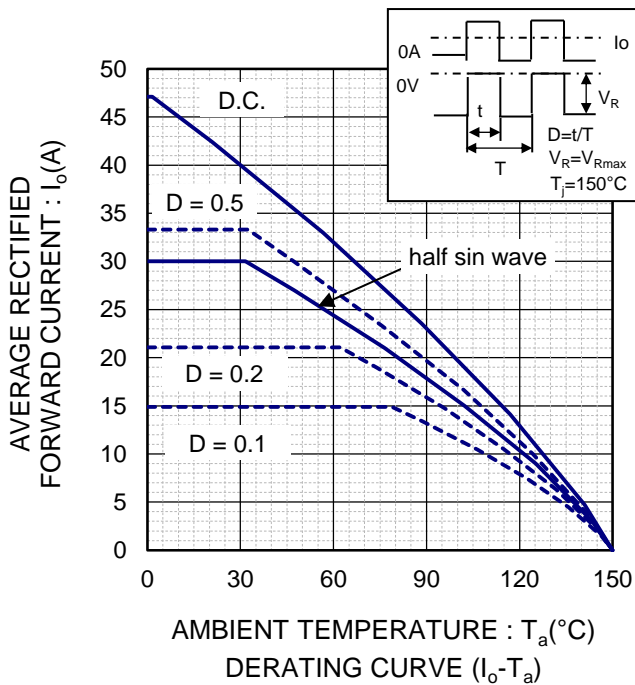
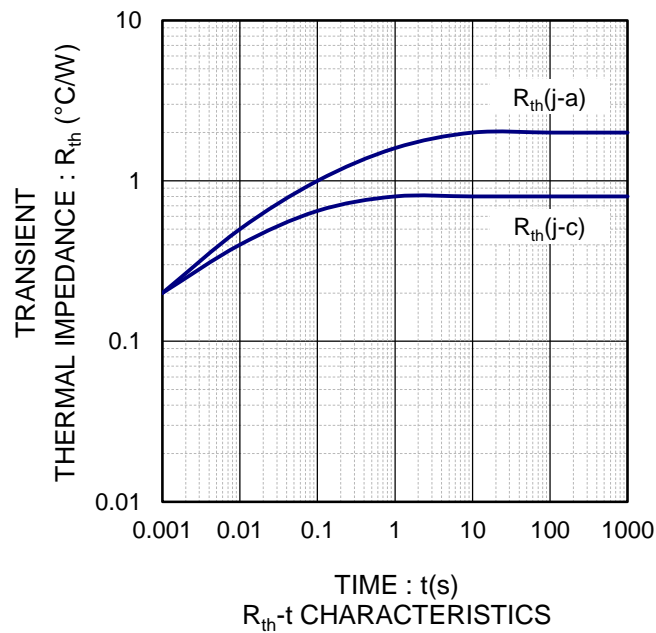
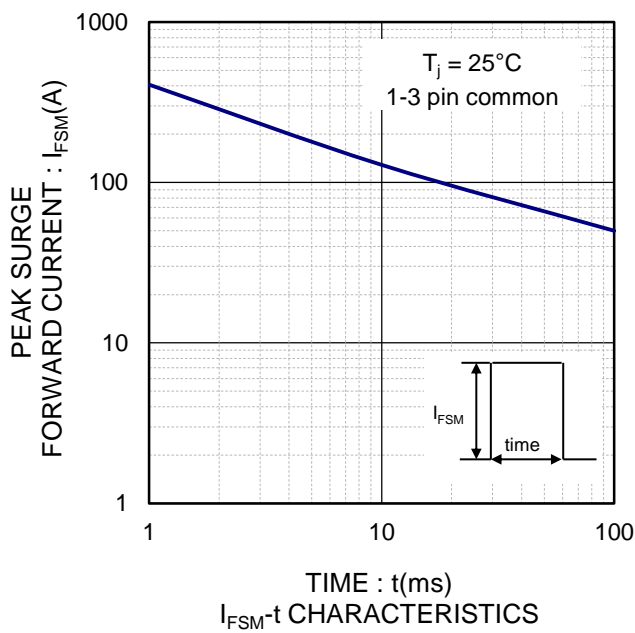
#### ●Electrical characteristics ( $T_j = 25^\circ\text{C}$ )

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	$V_F$	$I_F = 30\text{A}$	1.0	1.3	1.55	V
Reverse current	$I_R$	$V_R = 600\text{V}$	-	0.05	10	$\mu\text{A}$
Reverse recovery time	$t_{rr}$	$I_F = 0.5\text{A}, I_R = 1\text{A}, I_{rr} = 0.25 \times I_R$	-	36	60	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	-	-	0.8	$^\circ\text{C} / \text{W}$

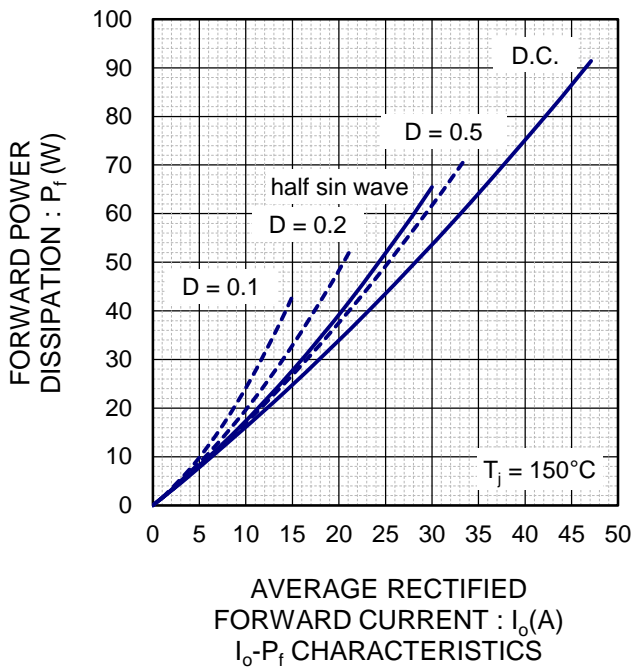
●Electrical characteristic curves



●Electrical characteristic curves



●Electrical characteristic curves



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