

Diodes

# Schottky barrier diode

## RB731XN

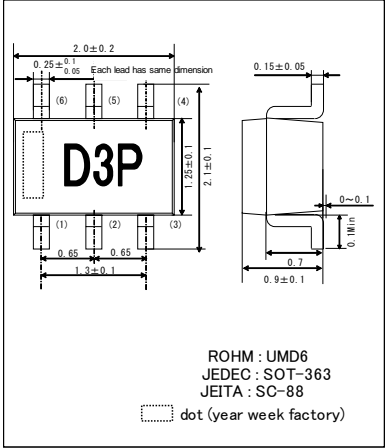
●Applications

General rectification

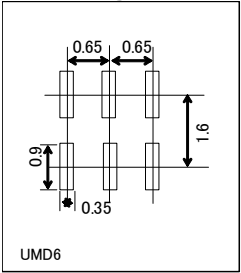
●Features

- 1) Small power mold type. (UMD6)
- 2) Low  $V_F$
- 3) High reliability

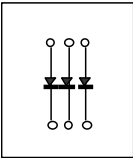
●External dimensions (Unit : mm)



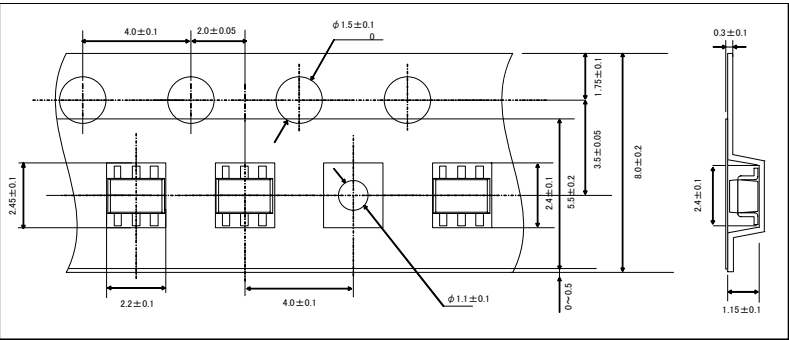
●Land size figure



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current *	$I_o$	30	mA
Forward current surge peak (60Hz · 1cyc.) *	$I_{FSM}$	200	mA
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

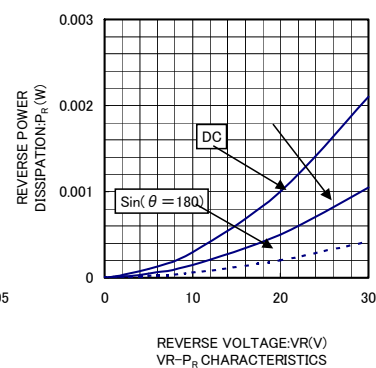
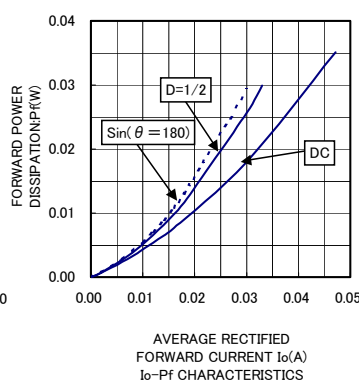
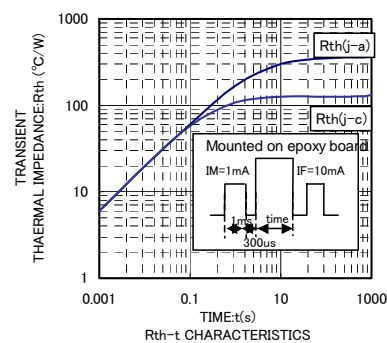
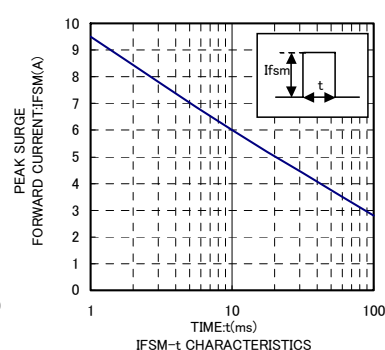
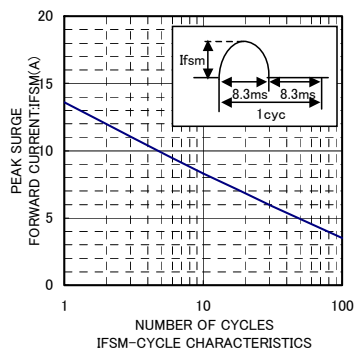
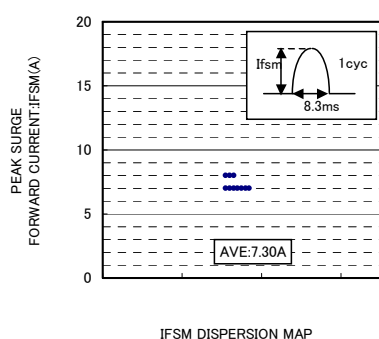
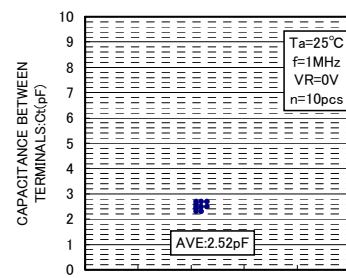
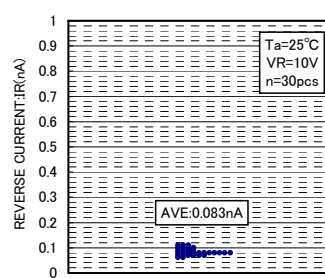
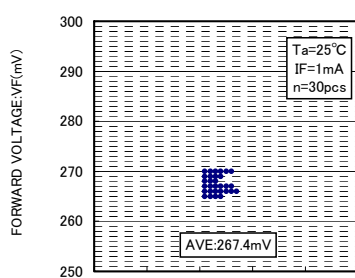
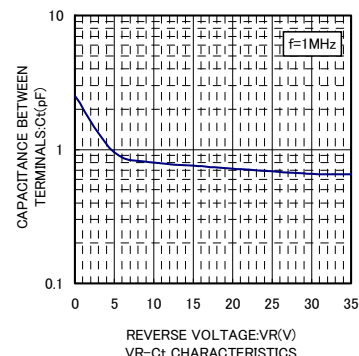
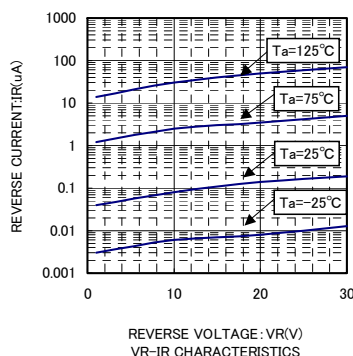
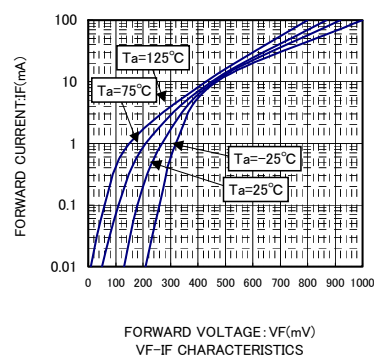
\* Rating for each diode  $I_o/3$

●Electrical characteristic (Ta=25°C)

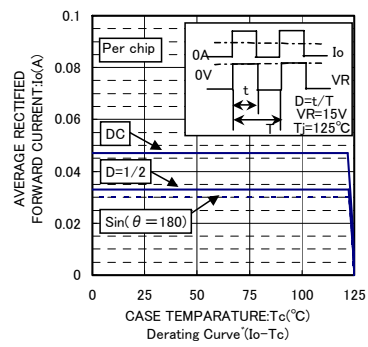
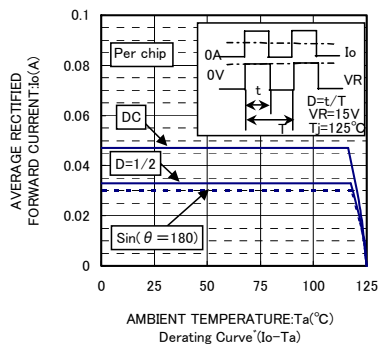
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	—	—	0.37	V	$I_F=1mA$
Reverse current	$I_R$	—	—	1	$\mu A$	$V_R=10V$
Capacitance between terminal	$C_t$	—	2	—	pF	$V_R=1V, f=1MHz$

## Diodes

## ●Electrical characteristic curves



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