

Schottky barrier diode

RB160L-60

●Applications

General rectification

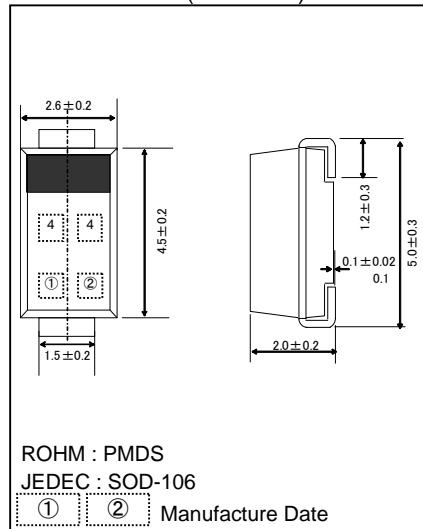
●Features

- 1) Small power mold type. (PMDS)
- 2) Low I_R .
- 3) High reliability

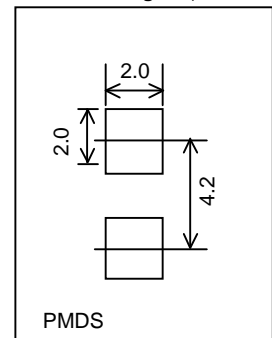
●Construction

Silicon epitaxial planar

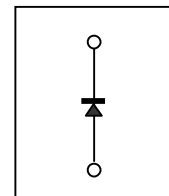
●Dimensions (Unit : mm)



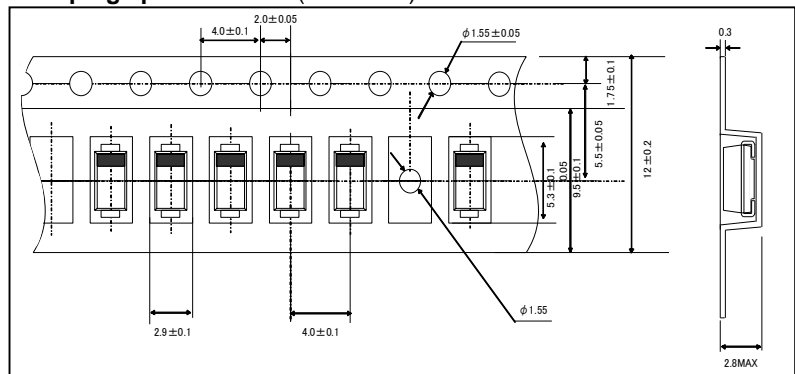
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

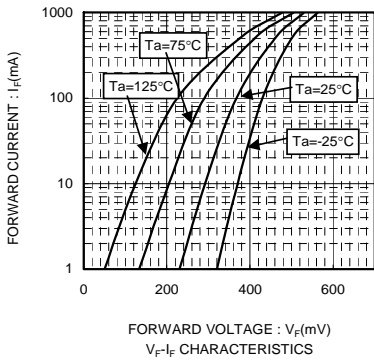
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	60	V
Reverse voltage (DC)	V_R	60	V
Average rectified forward current (*1)	I_O	1	A
Forward current surge peak (60Hz/1cyc)	I_{FSM}	30	A
Junction temperature	T_J	150	°C
Storage temperature	T_{stg}	-40 to +125	°C

(*1) Mounted on epoxy board. 180°Half sine wave

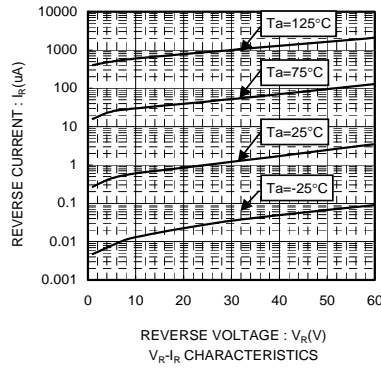
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.58	V	$I_F=1.0A$
Reverse current	I_R	-	-	1	mA	$V_R=60V$

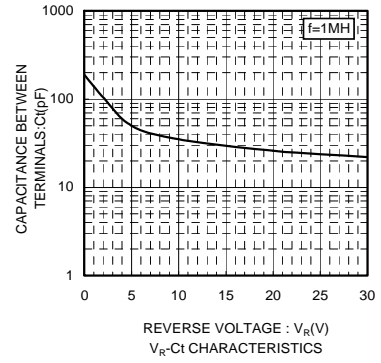
●Electrical characteristics curves



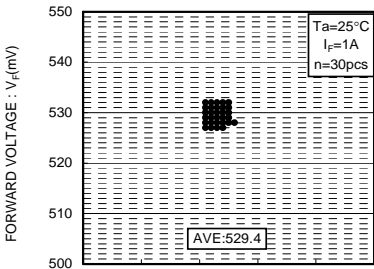
FORWARD VOLTAGE : V_F (mV)
 V_F - I_F CHARACTERISTICS



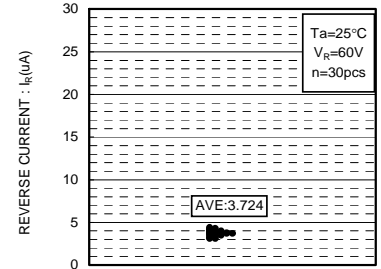
REVERSE VOLTAGE : V_R (V)
 V_R - I_R CHARACTERISTICS



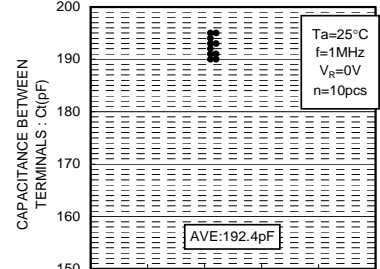
REVERSE VOLTAGE : V_R (V)
 V_R - C_t CHARACTERISTICS



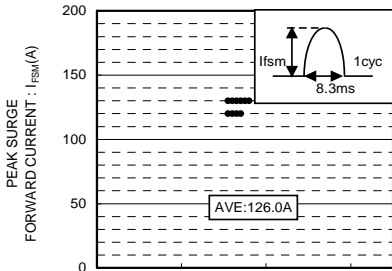
V_F DISPERSION MAP



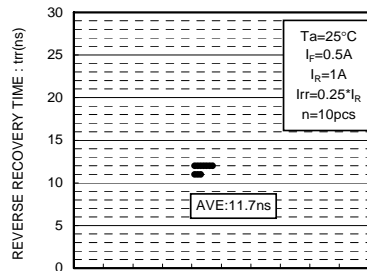
I_R DISPERSION MAP



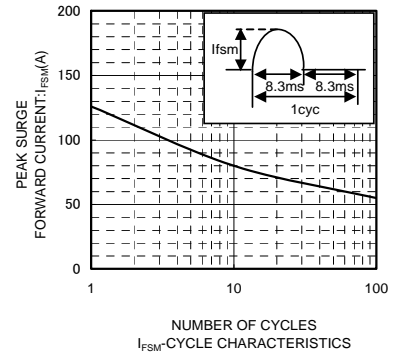
C_t DISPERSION MAP



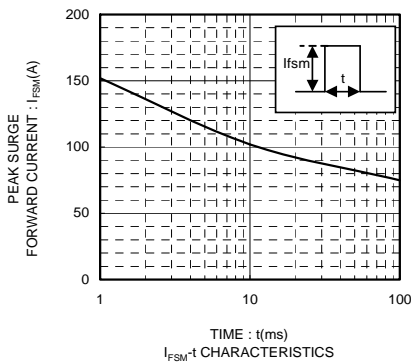
I_{FSM} DISPERSION MAP



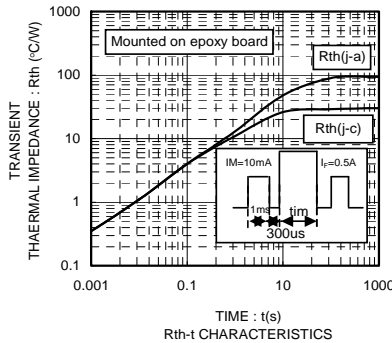
t_{rr} DISPERSION MAP



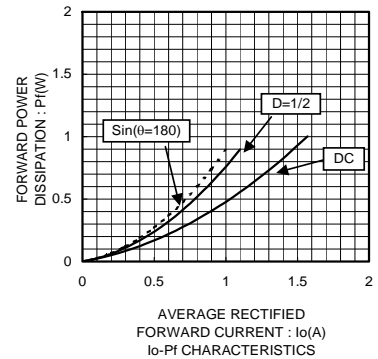
NUMBER OF CYCLES
 I_{FSM} -CYCLE CHARACTERISTICS



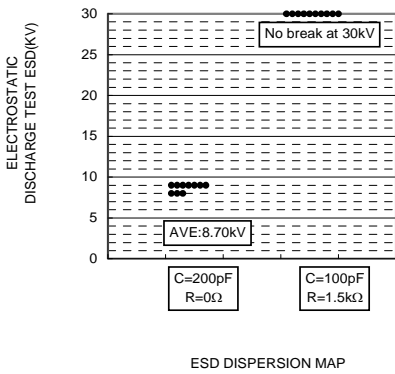
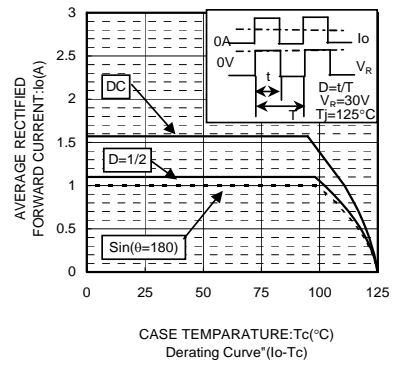
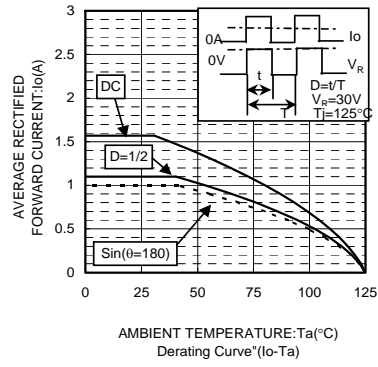
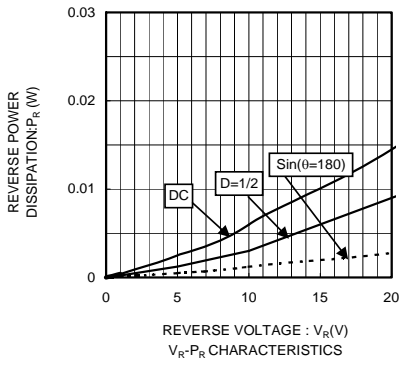
TIME : t (ms)
 I_{FSM} - t CHARACTERISTICS



TIME : t (s)
 R_{th} - t CHARACTERISTICS



AVERAGE RECTIFIED FORWARD CURRENT : I_o (A)
 I_o - P CHARACTERISTICS



Notes

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