Schottky barrier diode

RB160A60

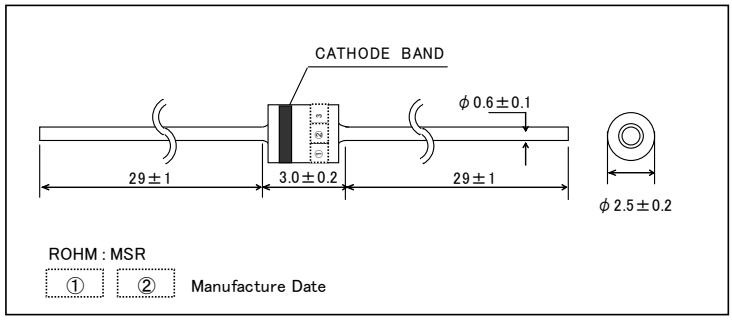
●**Applications**

General rectification

●**Features**

1) Cylindrical mold type. (MSR)
2) High I surge capability.
3) Low V_F.
4) High ESD.

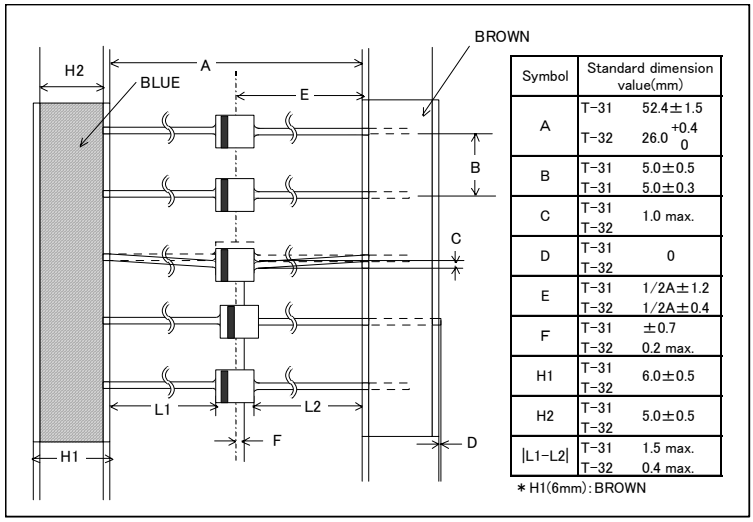
●**Dimensions** (Unit : mm)



●**Construction**

Silicon epitaxial planar

●**Taping specifications** (Unit : mm)



Symbol	Standard dimension value(mm)	
A	T-31	52.4±1.5
	T-32	26.0 +0.4 0
B	T-31	5.0±0.5
	T-31	5.0±0.3
C	T-31 T-32	1.0 max.
D	T-31 T-32	0
E	T-31	1/2A±1.2
	T-32	1/2A±0.4
F	T-31	±0.7
	T-32	0.2 max.
H1	T-31 T-32	6.0±0.5
H2	T-31 T-32	5.0±0.5
|L1-L2|	T-31	1.5 max.
	T-32	0.4 max.

＊H1(6mm):BROWN

●**Absolute maximum ratings** (Ta=25°C)

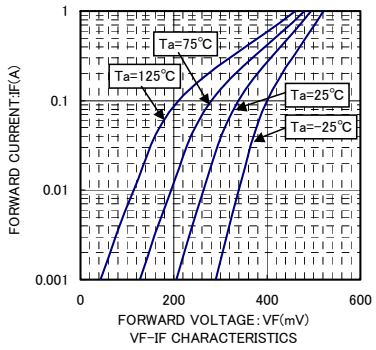
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	60	V
Reverse voltage (DC)	V_R	60	V
Average rectified forward current (*1)	Io	1	A
Forward current surge peak (t=100μs)	I_{FSM}	60	A
Junction temperature	Tj	150	℃
Storage temperature	Tstg	-55 to +150	℃

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

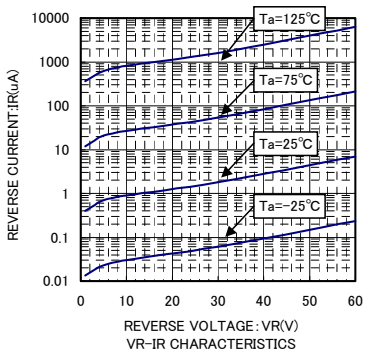
●**Electrical characteristic** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	0.4	0.5	0.55	V	I_F=1.0A
Reverse current	I_R	-	7.00	50	μA	V_R=60V
ESD break down voltage	ESD	20	-	-	kV	C=100pF,R=1.5kΩ, forward and reverse : 1 times

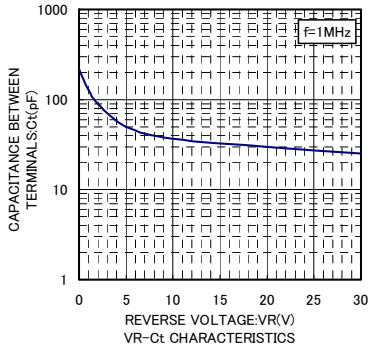
●Electrical characteristic curves



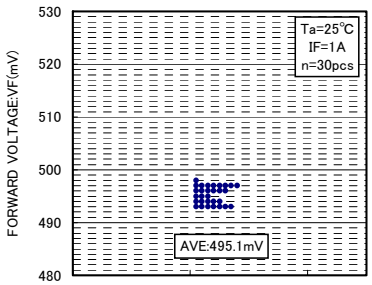
VF-IF CHARACTERISTICS



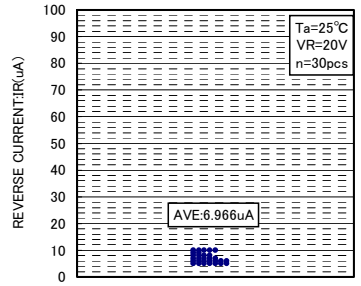
VR-IR CHARACTERISTICS



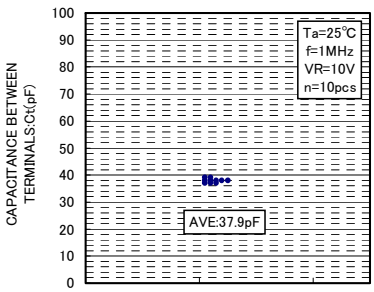
VR-Ct CHARACTERISTICS



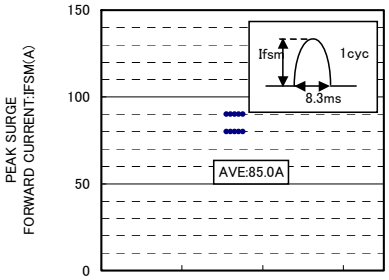
VF DISPERSION MAP



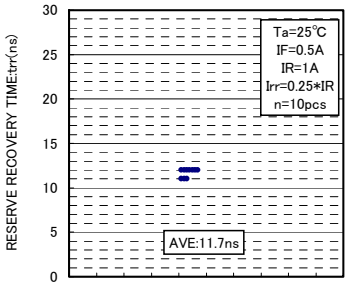
IR DISPERSION MAP



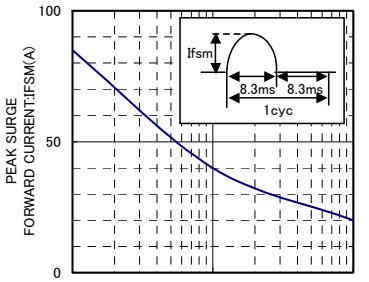
Ct DISPERSION MAP



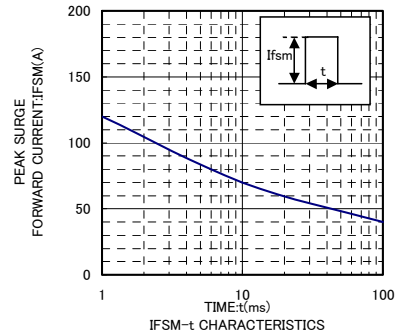
IFSM DISRESION MAP



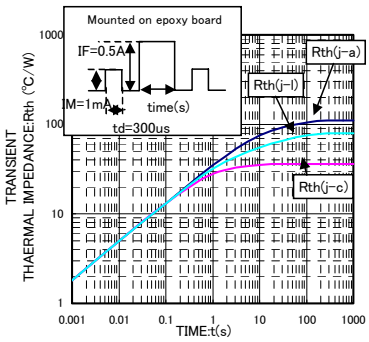
trr DISPERSION MAP



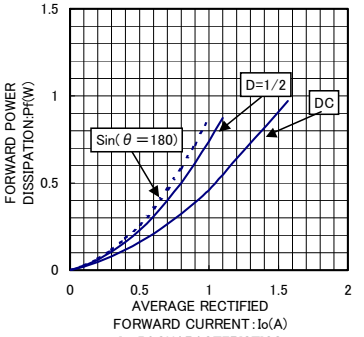
IFSM-CYCLE CHARACTERISTICS



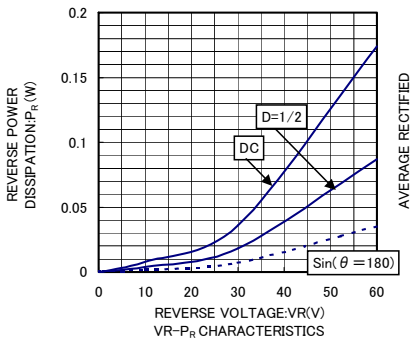
IFSM-t CHARACTERISTICS

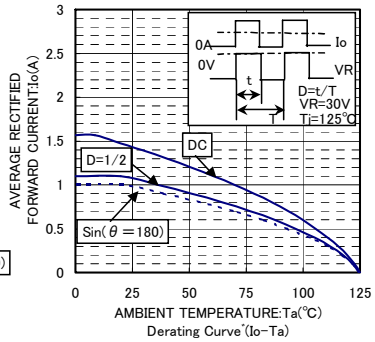


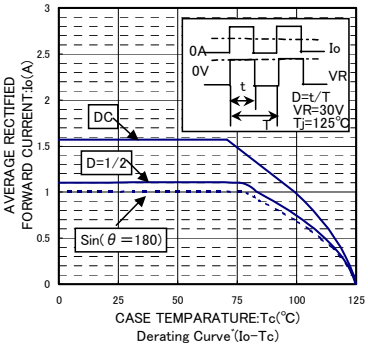
Rth-t CHARACTERISTICS

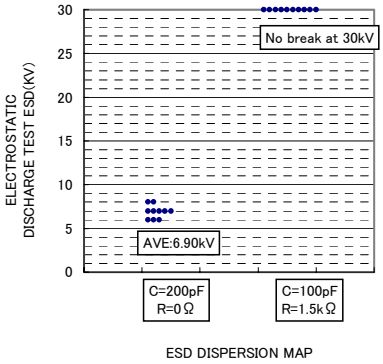


Io-Pf CHARACTERISTICS









ESD DISPERSION MAP

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