

# Schottky barrier diode

## RB160A40

**●Applications**

General rectification

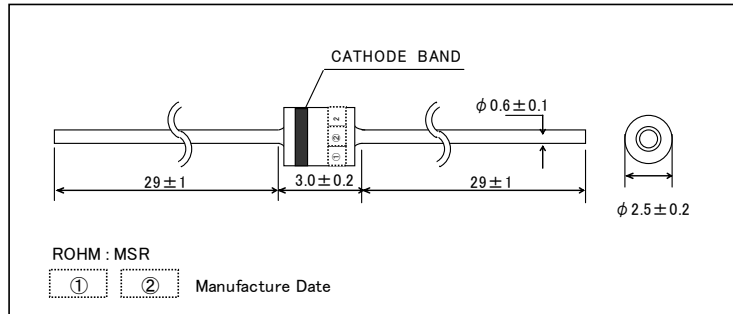
**●Features**

- 1) Cylindrical mold type. (MSR)
- 2) High I surge capability.
- 3) Low I<sub>R</sub>.
- 4) High ESD.

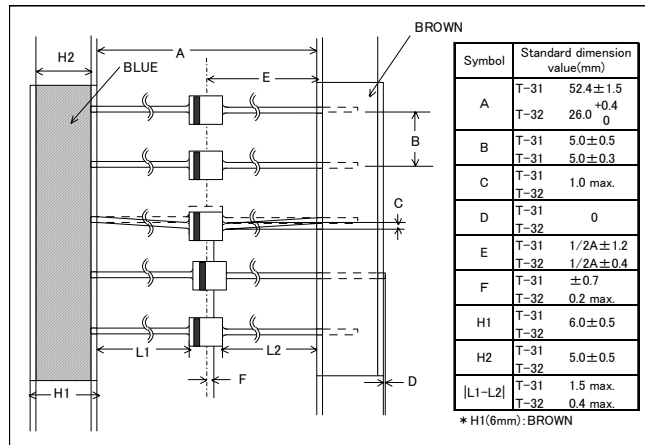
**●Construction**

Silicon epitaxial planar

**●Dimensions (Unit : mm)**



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



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V <sub>RM</sub>	40	V
Reverse voltage (DC)	V <sub>R</sub>	40	V
Average rectified forward current (*1)	I <sub>O</sub>	1	A
Forward current surge peak (t=100μs)	I <sub>FSM</sub>	50	A
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

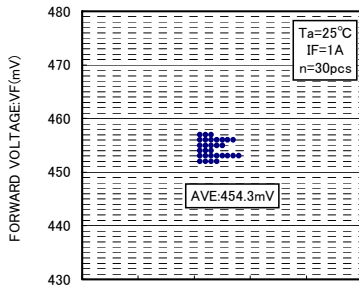
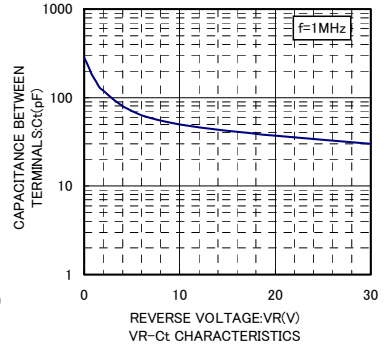
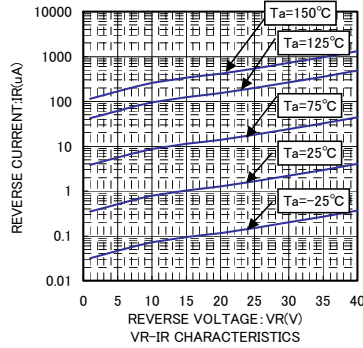
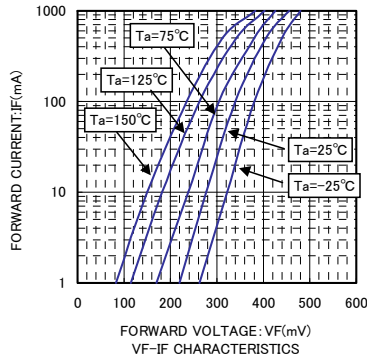
(\*1) Mounted on epoxy board. 180°Half sine wave

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

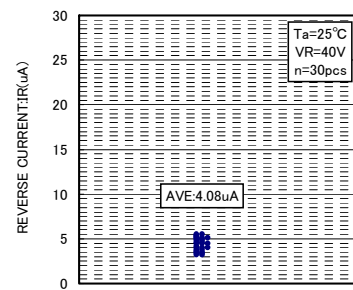
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	0.36	0.46	0.51	V	I <sub>F</sub> =1.0A
Reverse current	I <sub>R</sub>	-	4.00	30	μA	V <sub>R</sub> =40V
ESD break down voltage	ESD	20	-	-	kV	C=100pF,R=1.5kΩ, forward and reverse : 1 time

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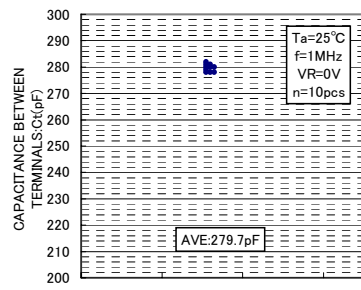
●Electrical characteristic curves (Ta=25°C)



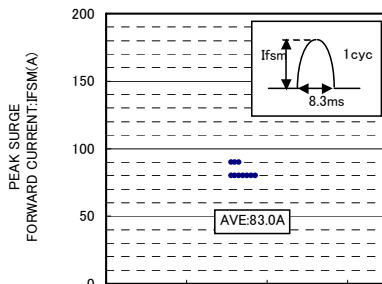
VF DISPERSION MAP



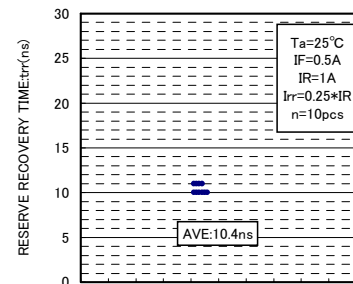
IR DISPERSION MAP



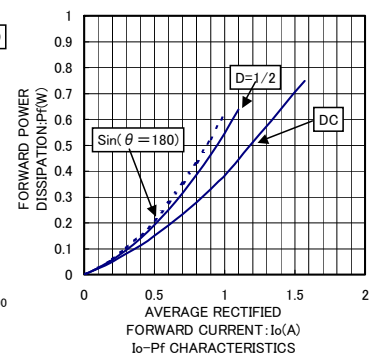
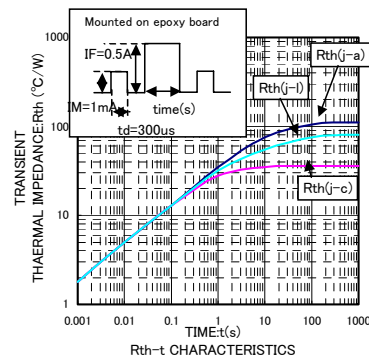
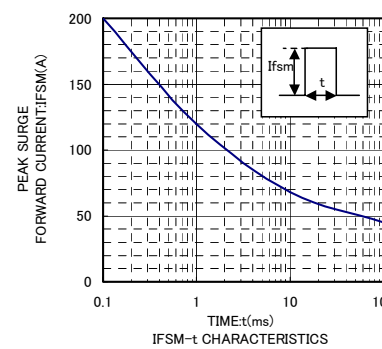
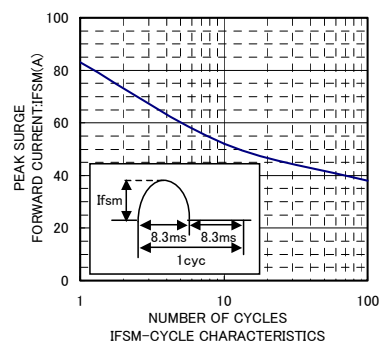
Ct DISPERSION MAP



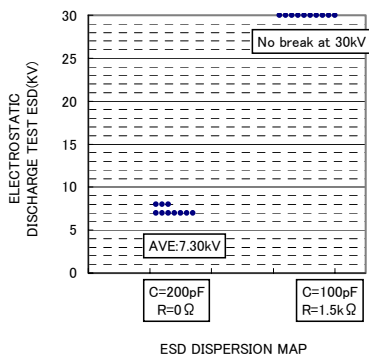
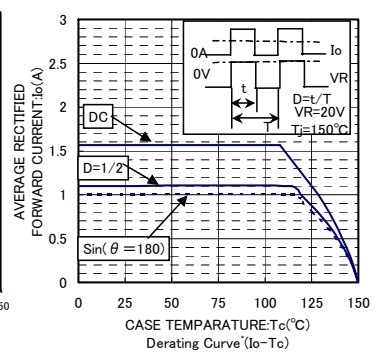
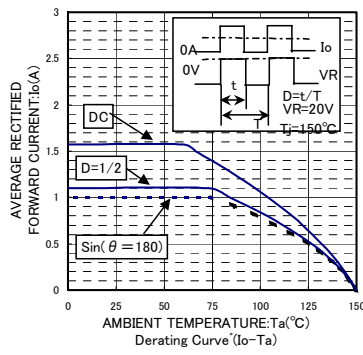
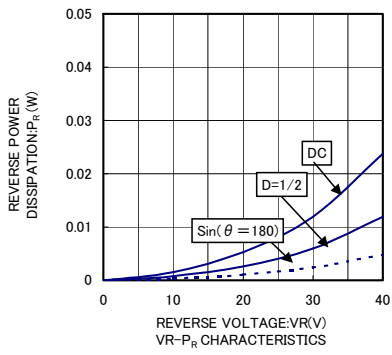
IFSM DISERSION MAP



trr DISPERSION MAP



Diodes



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