Schottky barrier diode RB201A60

Applications

General rectification

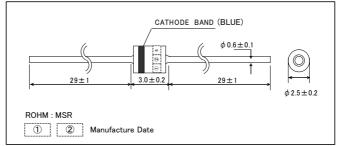
●Features

- 1) Cylindrical mold type.(MSR)
- 2) Low V_F .
- 3) High ESD.

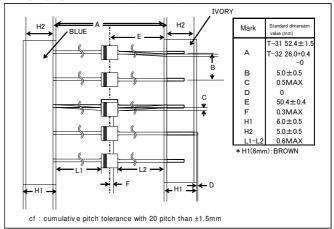
Construction

Silicon epitaxial planar

• Dimensions (Unit : mm)



• Taping specifications (Unit : mm)



● Absolute maximum ratings (Ta=25°C)

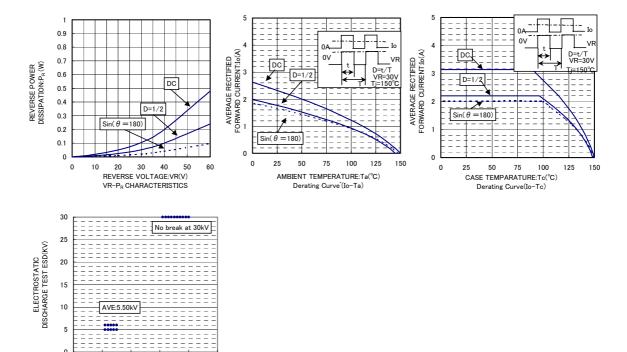
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	60	V
Reverse voltage (DC)	V_R	60	V
Average rectified forward current (*1)	lo	2	Α
Forward current surge peak (60Hz-1cyc)	I _{FSM}	40	Α
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

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

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	-	0.58	V	I _F =2.0A
Reverse current	I _R	1	-	100	μΑ	V _R =60V

●Electrical characteristic curves (Ta=25°C) 100000 1000 FORWARD CURRENT:IF(mA) 1 000 0001 CAPACITANCE BETWEEN TERMINALS:Ct(pF) REVERSE CURRENT:IR(uA) 100 10 0.1 0.1 0.01 0 10 15 20 25 300 400 500 15 20 0 200 600 0 10 FORWARD VOLTAGE: VF(mV) REVERSE VOLTAGE:VR(V) VR-Ct CHARACTERISTICS REVERSE VOLTAGE: VR(V) VF-IF CHARACTERISTICS VR-IR CHARACTERISTICS Ta=25°C VR=60V 360 FORWARD VOLTAGE:VF(mV) 80 REVERSE CURRENT:IR(uA) n=30pcs CAPACITANCE BETWEEN JACITANCE TERMINALS:Ct(pF) 70 60 50 530 30 20 520 220 200 VF DISPERSION MAP Ct DISPERSION MAP IR DISPERSION MAP Ta=25°C IF=0.5A 90 RESERVE RECOVERY TIME:trr(ns) PEAK SURGE FORWARD CURRENT:IFSM(A) PEAK SURGE FORWARD CURRENT:IFSM(A) 80 IR=1A r=0.25*IF 70 8.3ms 8.3ms 60 40 100 30 20 10 10 NUMBER OF CYCLES IFSM-CYCLE CHARACTERISTICS IFSM DISPERSION MAP trr DISPERSION MAP Mounted on epoxy board 150 10000 IF=0.5A PEAK SURGE FORWARD CURRENT:IFSM(A) THAERMAL IMPEDANCE:Rth (%) 100 FORWARD POWER DISSIPATION:Pf(W) $Sin(\theta = 180)$ TRANSIENT 10 TIME:t(ms) IFSM-t CHARACTERISTICS 100 0.001 0.01 100 1000 0 AVERAGE RECTIFIED FORWARD CURRENT: Io(A) Io-Pf CHARACTERISTICS TIME:t(s) Rth-t CHARACTERISTICS



C=100pF R=1.5kΩ

C=200pF R=0 Ω

ESD DISPERSION MAP

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