Schottky Barrier Diode

RBQ20T45A Datasheet

Application

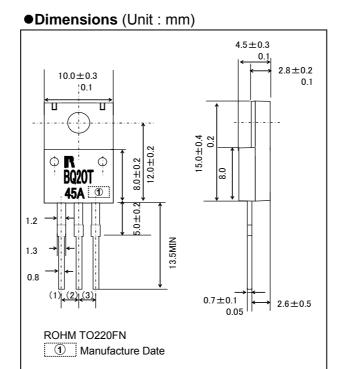
General rectification

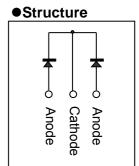
Features

- 1) Cathode common type.
- 2) Low I_R
- 3) High reliability

Construction

Silicon epitaxial planar





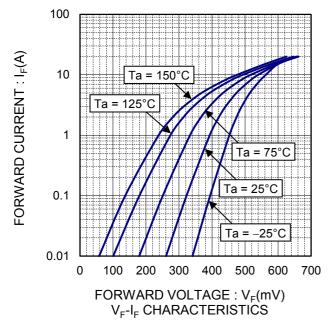
● Absolute maximum ratings (Tc= 25°C)

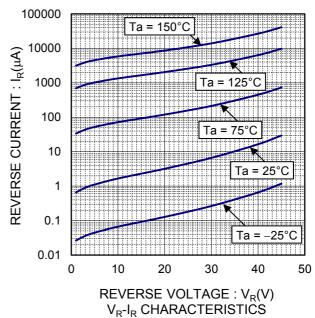
7.0007010 111001111111111111111111111111								
Parameter	Symbol	Limits	Unit					
Reverse voltage (repetitive)	V_{RM}	45	V					
Reverse voltage (DC)	V_R	45	V					
Average rectified forward current (*1)	lo	20	Α					
Forward current surge peak (60Hz·1cyc)	I _{FSM}	100	Α					
Junction temperature	Tj	150	°C					
Storage temperature	Tstg	-40 to +150	°C					

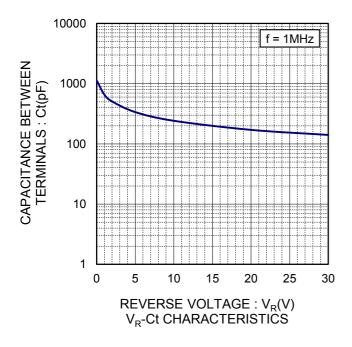
(*1) Rating of per diode: Io/2

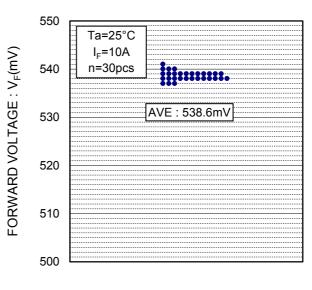
●Electrical characteristics (Tj = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	1	1	0.65	٧	I _F =10A
Reverse current	I_R	1	1	300	μΑ	V _R =45V

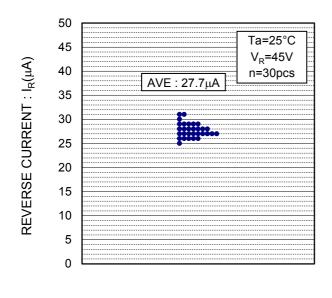


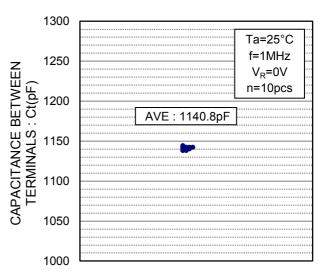






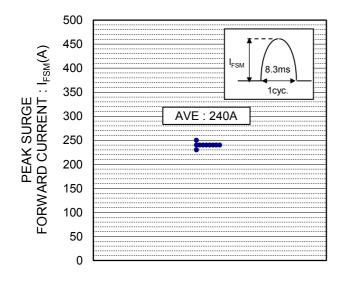
V_F DISPERSION MAP



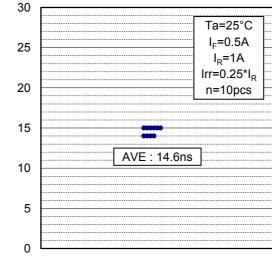


I_R DISPERSION MAP

Ct DISPERSION MAP

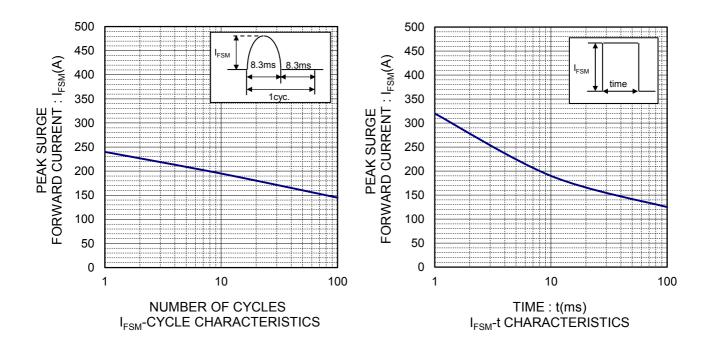


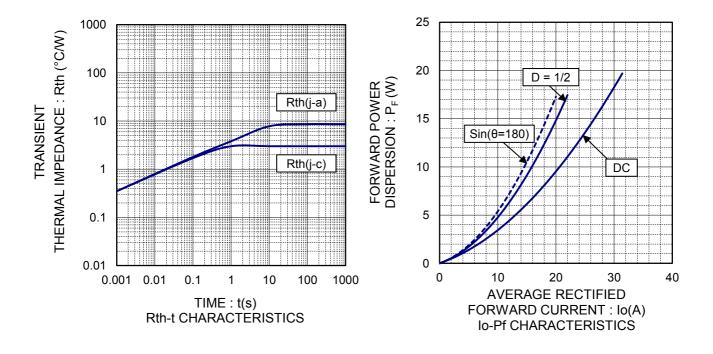
REVERSE RECOVERY TIME : trr(ns)

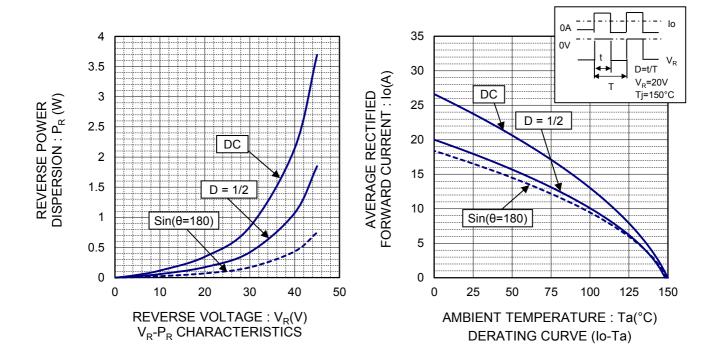


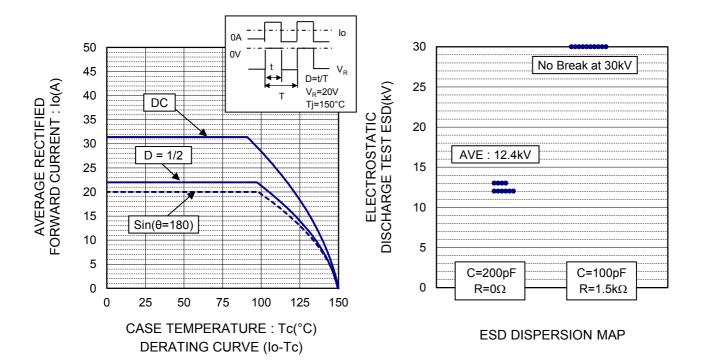
 I_{FSM} DISPERSION MAP

trr DISPERSION MAP









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