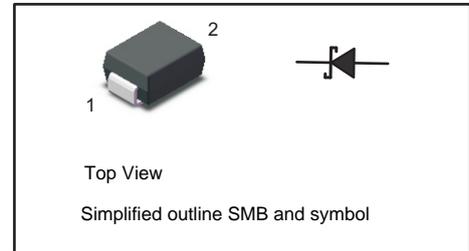


Surface Mount Schottky Barrier Rectifier
 Reverse Voltage - 20 to 200V
 Forward Current - 2.0A

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode


FEATURES

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

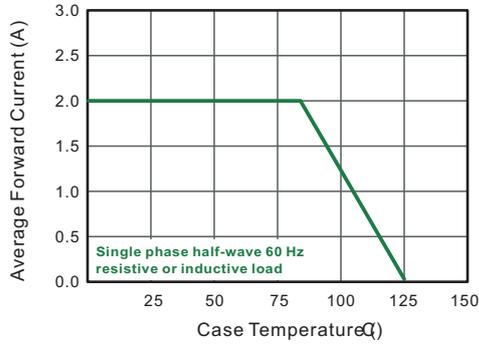
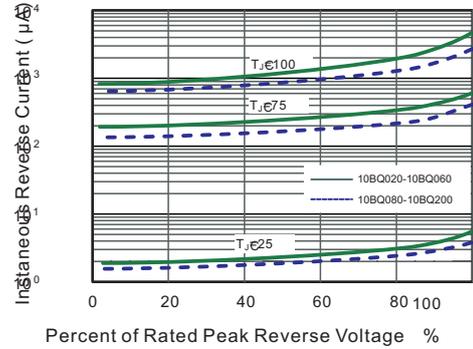
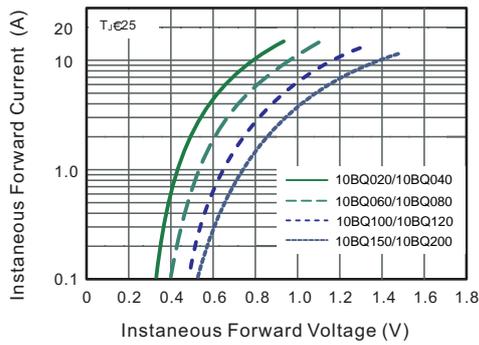
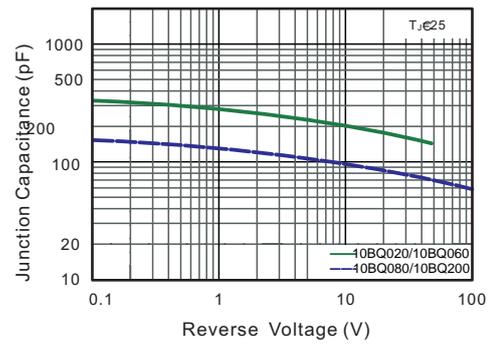
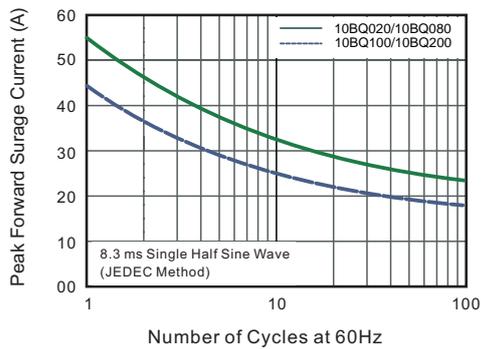
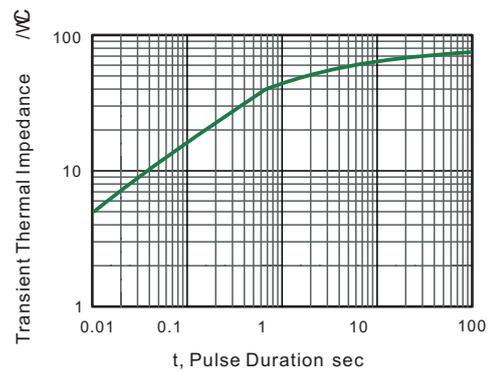
MECHANICAL DATA

- Case : SMB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.095g / 0.003oz

Absolute Maximum Ratings and Electrical characteristics

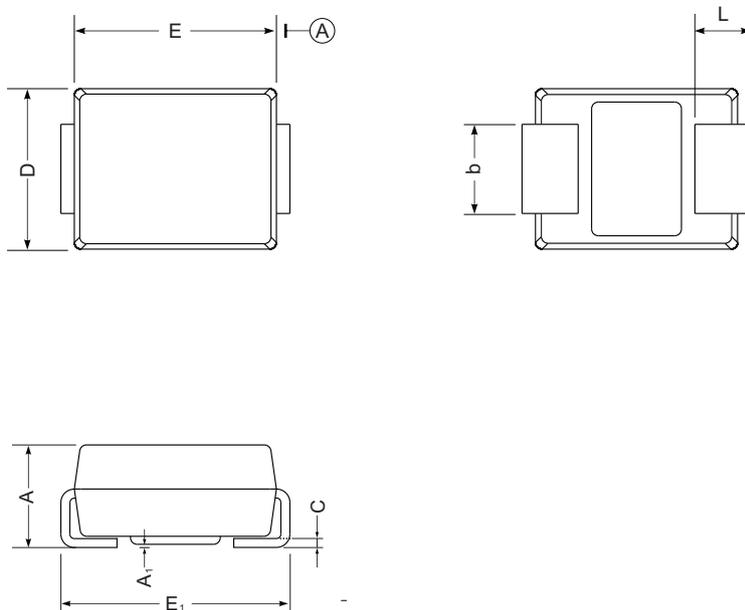
Ratings at 25 C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	10BQ020	10BQ040	10BQ060	10BQ080	10BQ100	10BQ120	10BQ150	10BQ200	Units
		SS22	SS24	SS26	SS28	SS210	SS212	SS215	SS220	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2.0								A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	55				45				A
Max Instantaneous Forward Voltage at 2 A	V_F	0.55	0.70		0.85		0.95		V	
Maximum DC Reverse Current $T_J = 25^{\circ}C$ at Rated DC Reverse Voltage $T_J = 100^{\circ}C$	I_R	0.5 5			0.3 3				mA	
Typical Junction Capacitance	C_j	220			110				pF	
Typical Thermal Resistance	$R_{\theta A}$	60								$^{\circ}C/W$
Operating Junction Temperature Range	T_J	-55 ~ +125								$^{\circ}C$
Storage Temperature Range	T_{stg}	-55 ~ +150								$^{\circ}C$

Fig.1 Forward Current Derating Curve

Fig.2 Typical Reverse Characteristics

Fig.3 Typical Forward Characteristic

Fig.4 Typical Junction Capacitance

Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

Fig.6- Typical Transient Thermal Impedance


PACKAGE OUTLINE

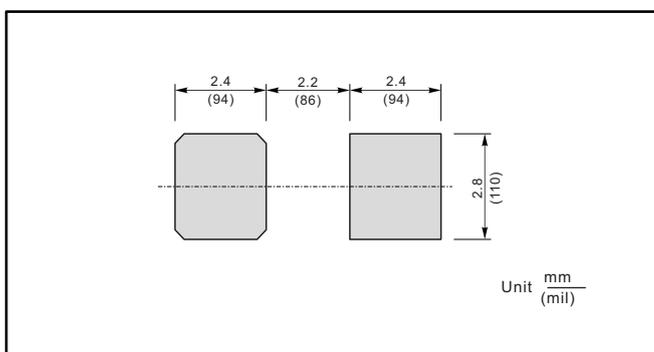
Plastic surface mounted package; 2 leads



SMB mechanical data

UNIT		A	E	D	E ₁	A ₁	L	C	b
mm	max	2.44	4.70	3.94	5.59	0.20	1.5	0.305	2.2
	min	2.13	4.06	3.3	5.08	0.05	0.8	0.152	1.9
mil	max	96	185	155	220	7.9	59	12	87
	min	84	160	130	200	2.0	32	6	75

The recommended mounting pad size



Marking

Type number	Marking code
10BQ020	SS22
10BQ040	SS24
10BQ060	SS26
10BQ080	SS28
10BQ100	SS210
10BQ120	SS212
10BQ150	SS215
10BQ200	SS220