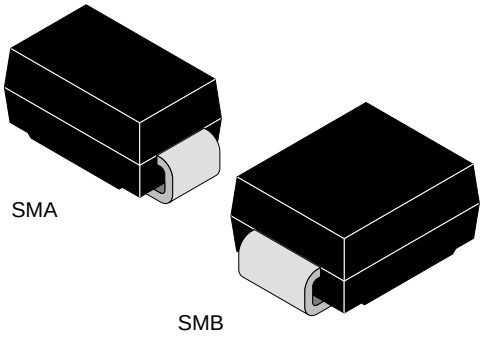
2.0A Surface Mount Schottky Barrier Rectifiers

Features

- Schottky barrier chip
- Guard ring die construction for transient protection
- Ideally suited for automatic assembly
- Low power loss, high efficiency
- Surge overload rating to 50A peak
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application
- High temperature soldering: 260˚C/10 second at terminal
- Plastic material – UL recognition flammability classification 94V–0



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Absolute Maximum Ratings

T_j = 25°C

Parameter	Test Conditions	Type	Symbol	Value	Unit
Repetitive peak reverse voltage =Working peak reverse voltage =DC Blocking voltage		B220/A	V_{RRM} =V_{RWM} =V_R	20	V
		B230/A		30	V
		B240/A		40	V
		B250/A		50	V
		B260/A		60	V
Peak forward surge current			I_{FSM}	50	A
Average forward current	T_T=100˚C		I_{FAV}	2	A
Junction and storage temperature range			T_j=T_{stg}	–65...+150	˚C

Electrical Characteristics

T_j = 25°C

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	I_F=2A	B220/A–B240/A	V_F			0.5	V
		B250/A–B260/A	V_F			0.7	V
Reverse current	T_A=25˚C		I_R			0.5	mA
	T_A=100˚C		I_R			20	mA
Diode capacitance	V_R=4V, f=1MHz		C_D		200		pF
Thermal resistance junction to ambient			R_{thJA}		20		K/W
	T_L=const.		R_{thJA}		25		K/W