

SURFACE MOUNT **SCHOTTKY BARRIER RECTIFIER**

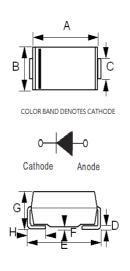
REVERSE VOLTAGE - 100Volts FORWARD CURRENT – 2.0 Ampere

FEATURES

- · Very Low forward voltage drop
- · High current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- Case: JEDEC DO-214AC
- Case Material: Molding compound, UL Flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Lead Free Plating (Matte Tin Finish.)
- · Polarity indicator: Cathode Band



SMA SMA DIM. MIN. MAX. Α 4.06 4.57 В 2.29 2.92 С 1.27 1.63 D 0.15 0.31 Ε 4.83 5.59 F 0.05 0.20 2.01 2.40 Н 0.76 1.52 All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER			SYMBOL	B210	B2100A	
Device marking code			Note	B2100A		
Maximum Repetitive Peak Reverse Voltage			VRRM	100		V
Maximum RMS Voltage			VRMS	70		V
Average Rectified Output Current @TL=110°C			I(AV)	2.0		Α
Peak Forward Surge Current 8.3ms single half sine-wave			IFSM	50	50	
Typical junction capacitance (1)			CJ	70	70	
Operating junction and storage temperature range			Tstg,TJ	-65 to +150		°C
PARAMETER	TEST CO	ONDITIONS	SYMBOL	Min.	Max.	UNIT
Breakdown voltage	IR=20uA	Tj=25°C	VB	100		V
Forward Voltage (2)	IF=2.0A	Tj=25°C Tj=100°C	VF		0.79 0.69	V
Leakage Current	VR=100V	Tj=25°C Tj=100°C	IR		0.02 15	mA
THERMAL CHARACTERISTIC			SYMBOL	Турі	Typical	
Typical thermal resistance_Junction to Case (3)			R⊖JC	30		°C/W
Typical thermal resistance_Junction to Ambient			R⊖JA	90		°C/W
Typical thermal resistance_Junction to Lead			R⊖JL	35		°C/W
Note :			<u> </u>	REV. 7, Jul-2017, KS		(SHA15

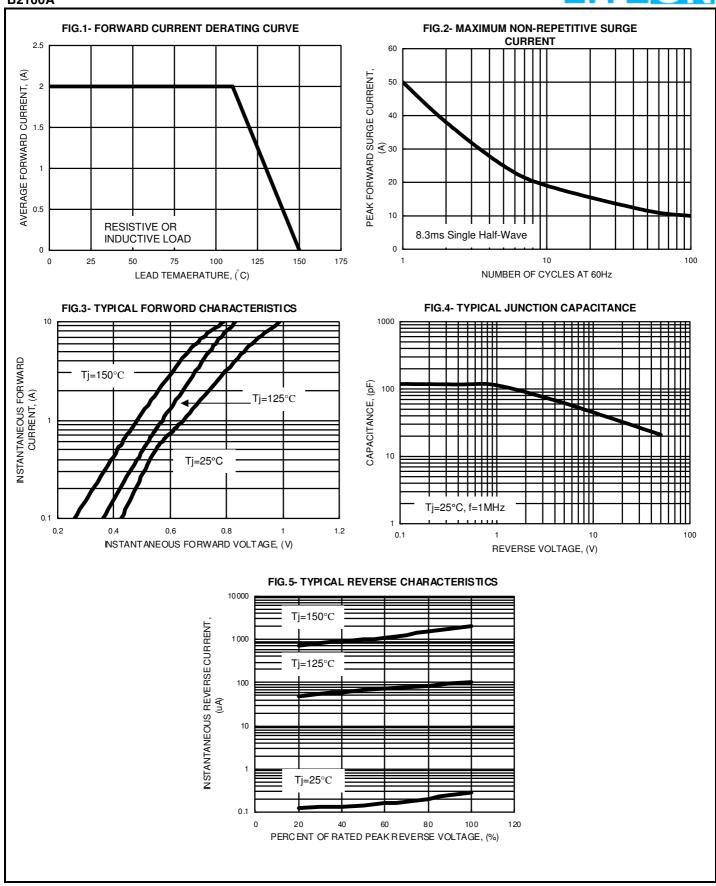
Note:

Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

- 300us Pulse width, 2% Duty cycle.
- Thermal Resistance test performed in accordance with JESD-51. (Unit mounted on 0.75t glass-epoxy substrate with 2x3 mm copper pad.)

RATING AND CHARACTERISTIC CURVES B2100A







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