



SDI2100

MICRO SURFACE MOUNT SCHOTTKY BRIDGE

VOLTAGE 100 Volts **CURRENT** 2 Amperes

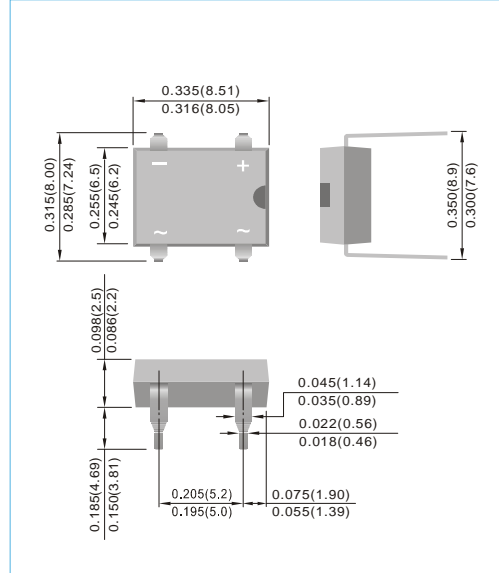
DIP Unit : inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, high efficiency.
- Low forward voltage, high current capability
- High surge capacity.
- Super fast recovery times, high voltage.
- Epitaxial chip construction.
- Ultra thin profile package for space constrained utilization
- Lead free in comply with EU RoHS 2002/95/EC directives.

MECHANICAL DATA

- Case: Reliable construction utilizing molded plastic technique results in product
- Terminals: Lead solderable per MIL-STD-202, Method 208
- Polarity: Polarity symbols molded or marking on body
- Mounting Position: Any
- Weight: 0.011 ounce, 0.4 gram



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 current by 20%

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50	A
Maximum Forward Voltage at 2A	V_F	0.84	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	4	uA
Typical Junction Capacitance ($V_R=4V, f=1MHz$)	C_J	125	pF
Typical Thermal Resistance per diode	$R_{\theta JA}$ $R_{\theta JL}$	85 20	°C / W
Operating and Storage Temperature Range	T_J	-55 to + 150	°C
Storage Temperature Range	T_{STG}	-55 to + 150	°C

NOTES:

1. Mounted on an FR4 PCB, single-sided copper, mini pad.
2. Mounted on an FR4 PCB, single-sided copper, with 48cm² copper pad area.



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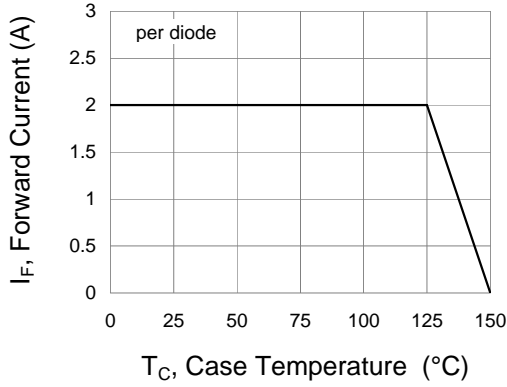


Fig.1 Forward Current Derating Curve

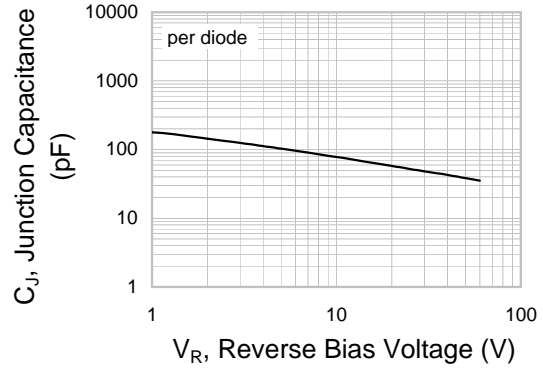


Fig.2 Typical Junction Capacitance

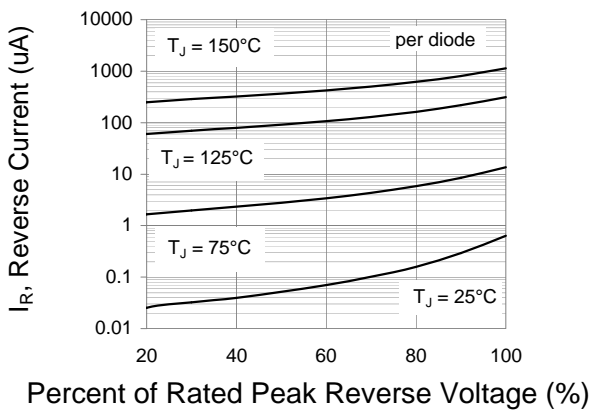


Fig.3 Typical Reverse Characteristics

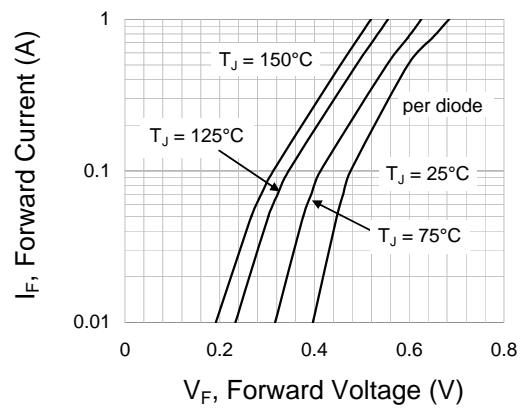


Fig.4 Typical Forward Characteristics



SDI2100

Part No_packing code_Version

SDI2100_T0_00001

SDI2100_T0_10001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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