



# SDI260 / SDI2100

## MICRO SURFACE MOUNT SCHOTTKY BRIDGE

**VOLTAGE** 60 / 100 Volts **CURRENT** 2 Amperes

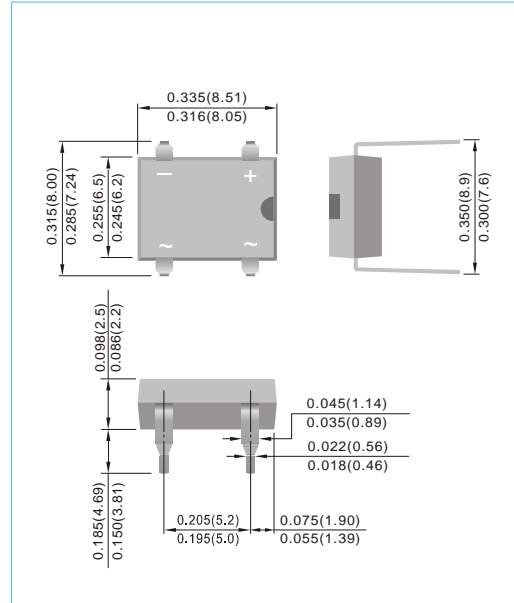
**DIP** Unit : inch(mm)

### 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 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: Reliable construction utilizing molded plastic technique results in product
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbols molded or marking on body
- 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%

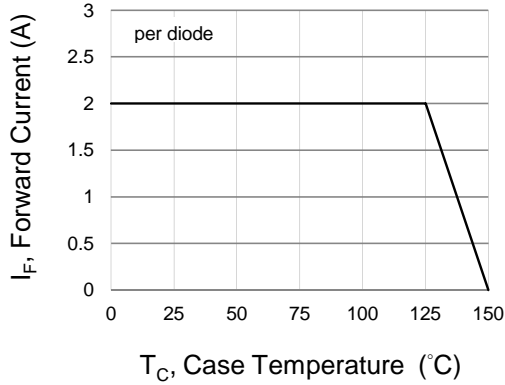
PARAMETER	SYMBOL	SDI260	SDI2100	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	60	100	V
Maximum RMS Voltage	$V_{RMS}$	42	70	V
Maximum DC Blocking Voltage	$V_{DC}$	60	100	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2		A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method) per diode	$I_{FSM}$	50		A
Maximum Forward Voltage at 2A per diode	$V_F$	0.68	0.84	V
Maximum DC Reverse Current at Rated DC Blocking Voltage per diode	$I_R$	50	4	uA
Typical Junction Capacitance ( $V_R=4V, f=1MHz$ )	$C_J$	130	125	pF
Typical Thermal Resistance per diode (Note 1)	$R_{\theta JA}$	85	85	°C / W
(Note 2)	$R_{\theta JL}$	31	20	
Operating and Storage Temperature Range	$T_J$	-55 to + 150		°C
Storage Temperature Range	$T_{STG}$	-55 to + 150		°C

### NOTES:

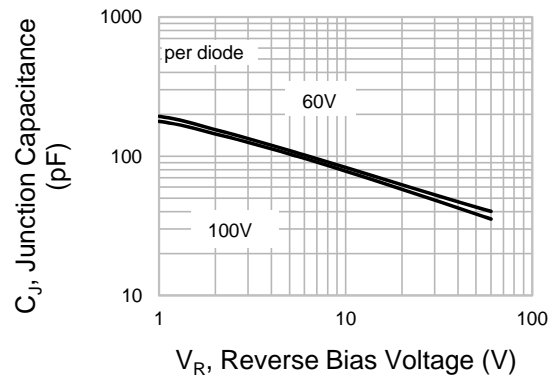
1. Mounted on an FR4 PCB, single-sided copper, mini pad.
2. Mounted on an FR4 PCB, single-sided copper, with 48cm<sup>2</sup> copper pad area.



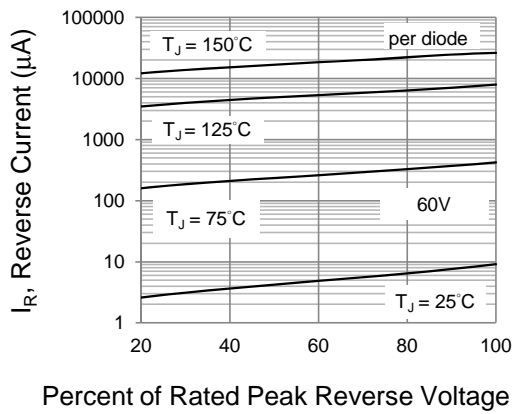
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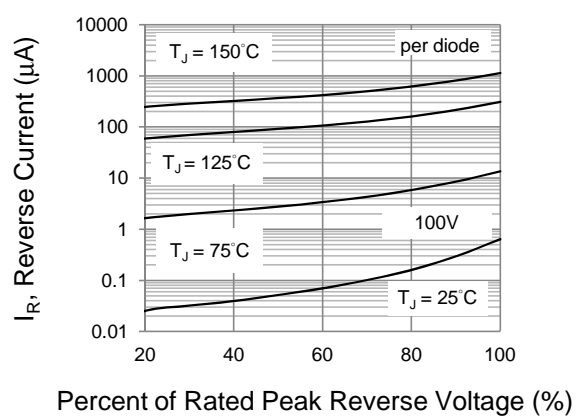
**Fig.1 Forward Current Derating Curve**



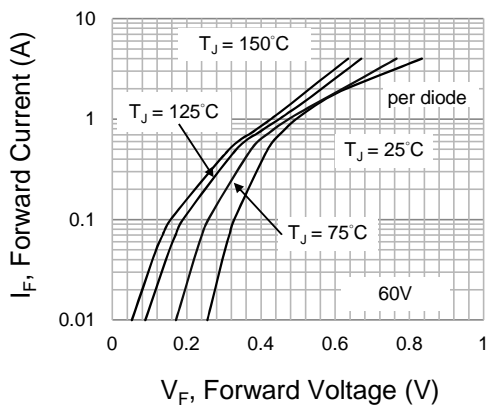
**Fig.2 Typical Junction Capacitance**



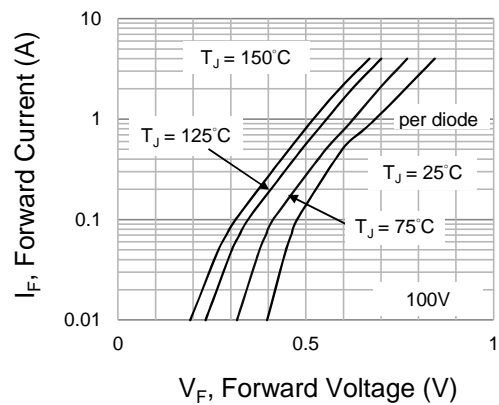
**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Reverse Characteristics**



**Fig.5 Typical Forward Characteristics**



**Fig.6 Typical Forward Characteristics**



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Part No\_packing code\_Version

SDI260\_T0\_00001

For example :

**RB500V-40\_R2\_00001**



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



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