

SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE - 150 Volts FORWARD CURRENT - 3.0 Amperes

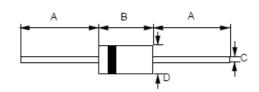
FEATURES

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- · High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application

MECHANICAL DATA

- Case: JEDEC DO-201AD molded plastic
- Polarity: Color band denotes cathode
- Weight: 1.0675 grams (Approximate)
- Mounting position: Any

DO-201AD



DO-201AD			
Dim.	Min.	Max.	
A	25.4	-	
В	7.30	9.50	
С	1.20	1.30	
D	4.80	5.30	
All Dimensions in millimeter			

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwis e specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	150	V
Maximum RMS Voltage		V_{RMS}	105	V
Maximum DC blocking voltage		V _{DC}	150	V
Average rectified forward current	@T _L =120°C	I _(AV)	3.0	Α
Peak forward surge 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	80	Α
Operating and Storage temperature range		T _J , T _{STG}	-55 ~ +175	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST	CONDITION	SYMBOL	TYP	MAX	UNIT
Forward voltage	$I_F = 3A$	T _J = 25℃	V _F		0.95	V
Reverse leakage current	V _R = 150V	T _J = 25℃ T _J = 150℃	I _R	 	0.01 20	mA
Typical junction capacitance (Note 1)		CJ	1	05	pF	

THERMAL PERFORMANCE

Note:

PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 2,3)	RthJ _C	12	°C/W
Typical thermal resistance (Note 2,5)	$RthJ_A$	35	0/ * *

(1) Measured at 1.0MHz and applied reverse voltage of 4.0 VDC

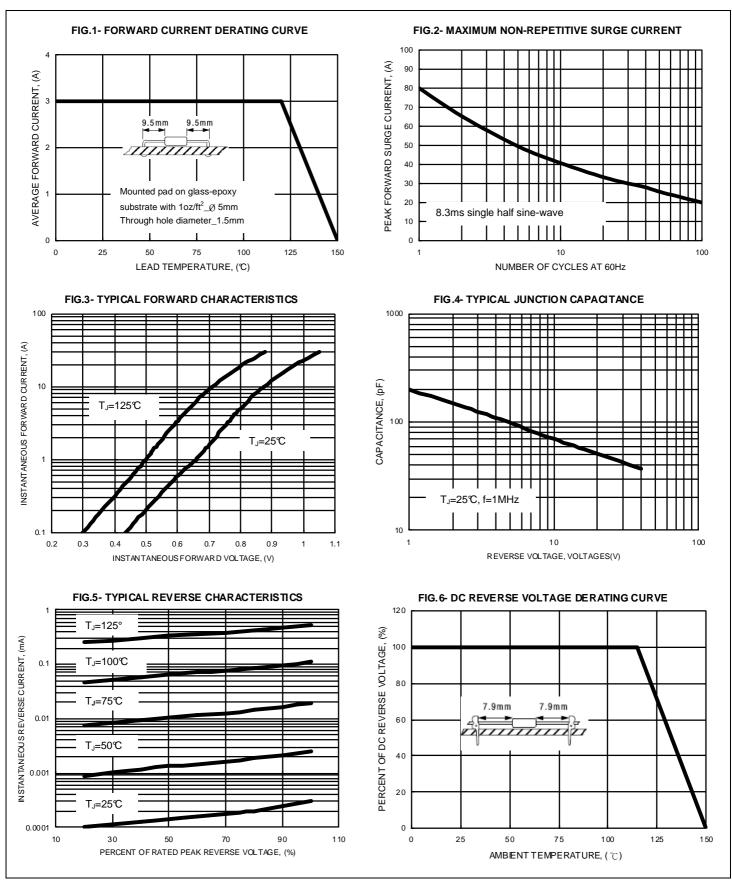
- (2) Thermal Resistance Junction to Lead
- (3) Thermal Resistance Junction to Case

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RATING AND CHARACTERISTIC CURVES SB3150







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