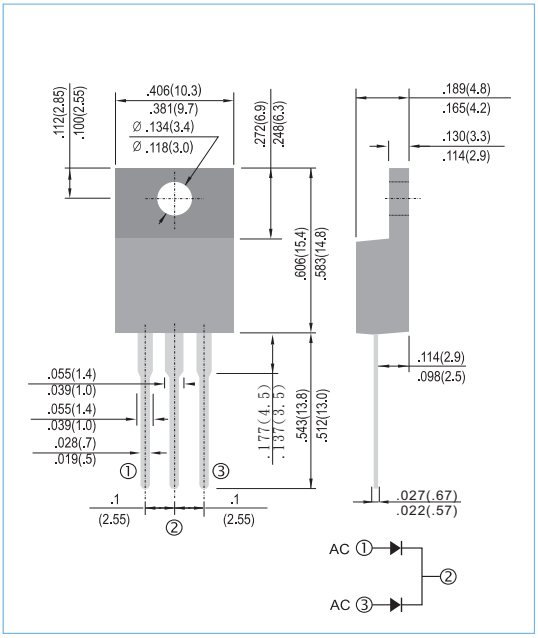
SB20100LFCT

DUAL LOW VF SCHOTTKY RECTIFIER

VOLTAGE 100 Volts **CURRENT** 20 Amperes

ITO-220AB Unit: inch (mm)



FEATURES

- Low forward voltage drop, low power losses
- High efficiency operation
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case : ITO-220AB, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026

Weight: 0.055 ounces, 1.5615 grams.

MAXIMUM RATINGS(T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	100	V
Maximum average forward rectified current (Fig.3)	per device per diode	$I_{F(AV)}$	20 10	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode	per diode	I_{FSM}	200	A
Typical thermal resistance		$R_{\Theta JC}$	4.5	°C/W
Operating junction		T_J	-55 to + 150	°C
Storage temperature range		T_{STG}	-55 to + 150	°C

ELECTRICAL CHARACTERISTICS(T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V_{BR}	I_R=1.0mA		103	120	-	V
Instantaneous forward voltage per diode (1)	V_F	I_F=5A I_F=10A	T_J=25°C	- -	0.55 -	0.60 0.75	V
		I_F=5A I_F=10A	T_J=125°C	- -	0.52 0.62	- 0.7	V
Reverse current per diode (2)	I_R	V_R=70V		-	12	40	μA
		V_R=100V	T_J=25°C T_J=125°C	- -	- -	500 35	μA mA

Note.1 Pulse test : 380μs pulse width, 1% duty cycle

2. Pulse test : Pulse width ≤ 2.5ms

PAN JIT RESERVES THE RIGHT TO IMPROVE PRODUCT DESIGN,FUNCTIONS AND RELIABILITY WITHOUT NOTICE

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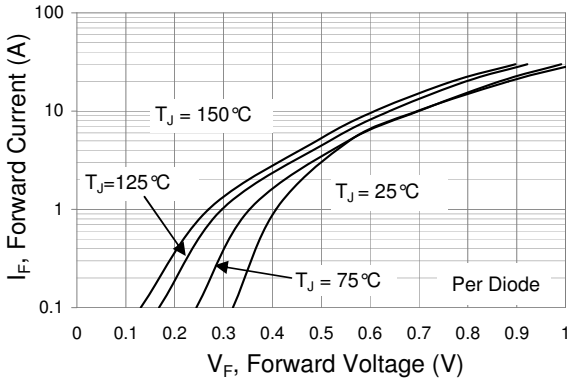

Fig.1 Typical Forward Characteristics

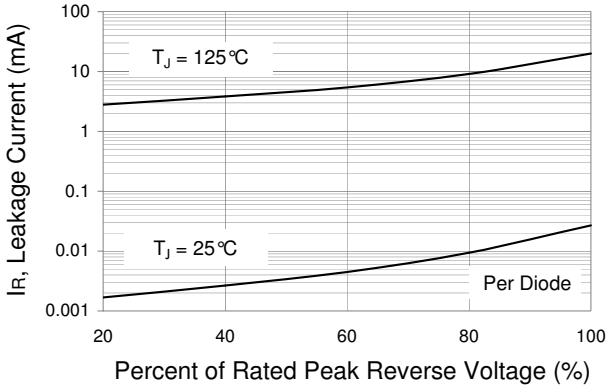

Fig.2 Typical Reverse Characteristics

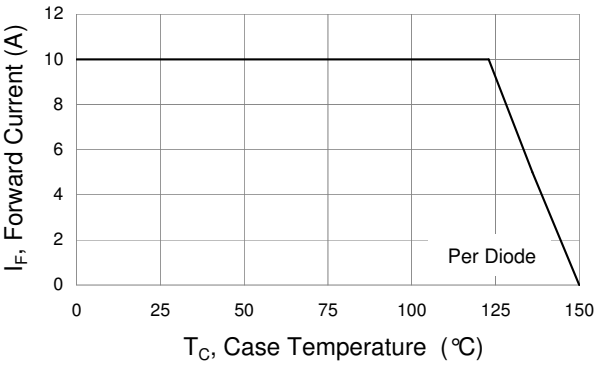

Fig.3 Forward Current Derating Curve

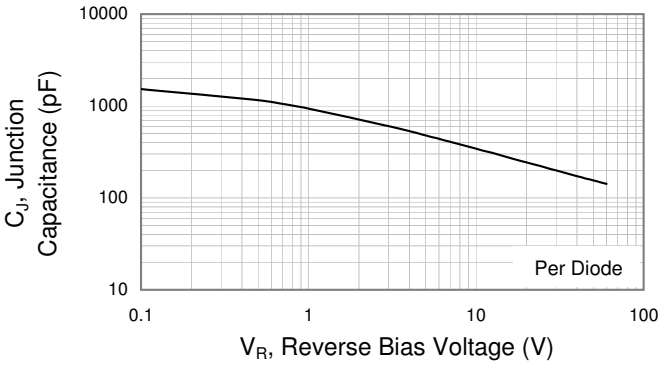

Fig.4 Typical Junction Capacitance