



SB10100LFCT

DUAL HIGH-VOLTAGE SCHOTTKY RECTIFIER

ITO-220AB

Unit: inch (mm)

VOLTAGE 100 Volts **CURRENT** 10 Amperes

FEATURES

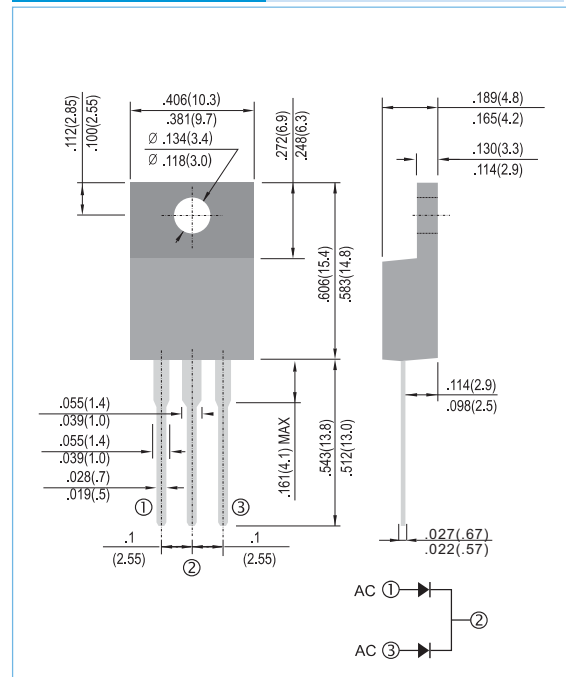
- Low forward voltage drop, low power losses
- High efficiency operation
- In compliance with EU RoHS 2002/95/EC directives

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.1)	I _{F(AV)}	10 5	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode	I _{FSM}	125	A
Typical thermal resistance	R _{θJC}	5	°C / W
Isolation voltage from terminal to heatsink t=1mm	V _{AC}	1500	V
Operating junction and storage temperature range	T _J ,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	V _{BR}	I _R =1mA	103	120	-	V	
Instantaneous forward voltage per diode ⁽¹⁾	V _F	I _F =1A	-	0.45	0.5	V	
		I _F =5A	-	0.79	-	V	
		I _F =1A	-	0.40	0.46	V	
		I _F =5A	-	0.59	-	V	
Reverse current per diode ⁽²⁾	I _R	V _R =70V	-	8	-	μA	
		V _R =100V	T _A =25°C	-	16	100	μA
			T _A =125°C	-	-	30	mA

Note.1.Pulse test : 300μs pulse width, 1% duty cycle

2.Pulse test used to minimize Self-Heating Effect

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



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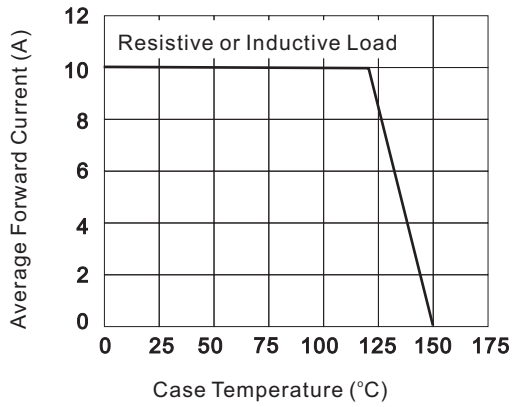


Figure 1. Forward Current Derating Curve

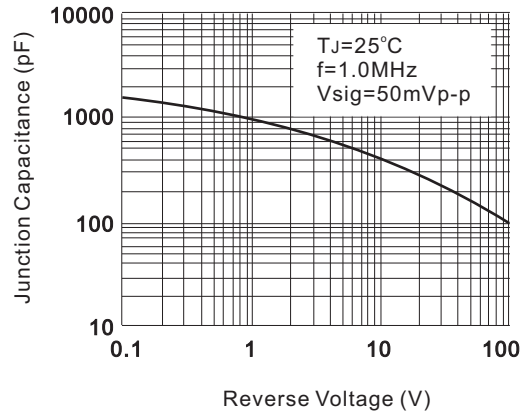


Figure 2. Typical Junction Capacitance

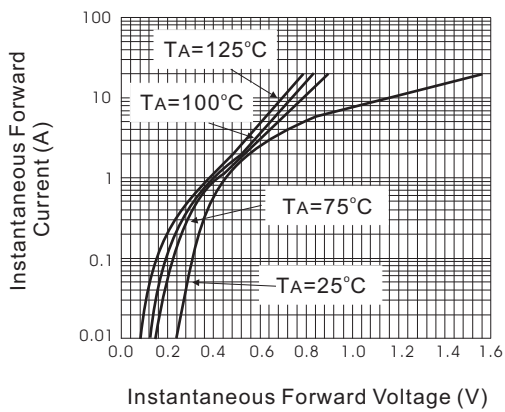


Figure 3. Typical Instantaneous Forward Characteristics Per Diode

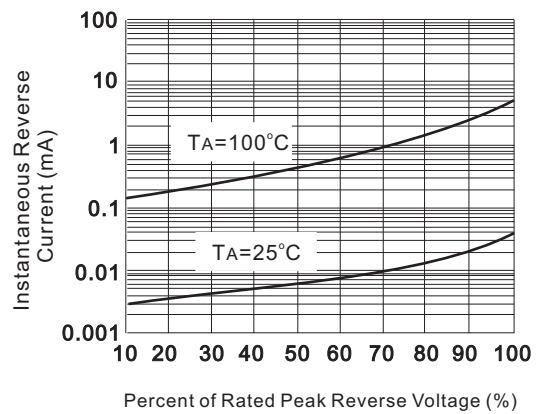


Figure 4. Typical Reverse Characteristics Per Diode