

VOLTAGE RANGE: 45V

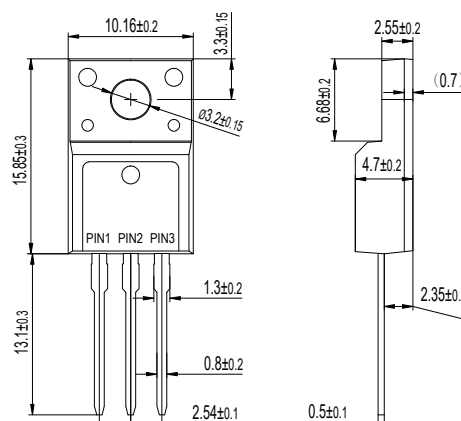
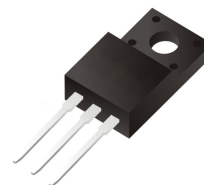
CURRENT: 30A

Features

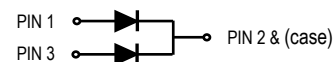
- Ultra low v_f
- High efficiency operation
- Low power loss
- Low stored charge majority carrier conduction
- High forward surge capability
- Lead free in compliance with EU RoHS 2011/65/EU directive

Mechanical Data

- Circuit figure: Common cathode
- Leads: Solderable per mil-std-202, Method 208
- Polarity: as marked
- Mounting torque: 5 in-lbs maximum
- Terminals: Puretin plated
- Weight: ITO-220AB 1.70 grams



ITO-220AB



Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

RATINGS	SYMBOL	SBLF3045CT	UNIT
Maximum repetitive reverse voltage	VRRM	45	V
Maximum RMS voltage	VRMS	31.5	V
Maximum DC blocking voltage	VDC	45	V
Maximum average forward current per device per diode	IAV	30 15	A
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load	IFSM	300	A
Typical thermal resistance per diode(Note 1)	Rθ-JC	4.5	°C/W
Operating junction temperature range	TJ	-55 to +150	°C
Storage temperature range	TSTG	-55 to +150	°C

Notes: 1. Thermal resistance from junction to case.

Electrical Characteristics T_A = 25°C unless otherwise specified

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V _{BR}	I _R =0.5mA	45	-	-	V
Instantaneous forward voltage per diode	V _F	I _F =15A T _J =25°C	-	-	0.52	V
		I _F =15A T _J =125°C	-	-	0.48	V
Reverse current per diode	I _R	V _R =45V T _J =25°C	-	-	200	μA
		T _J =125°C	-	-	100	mA

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

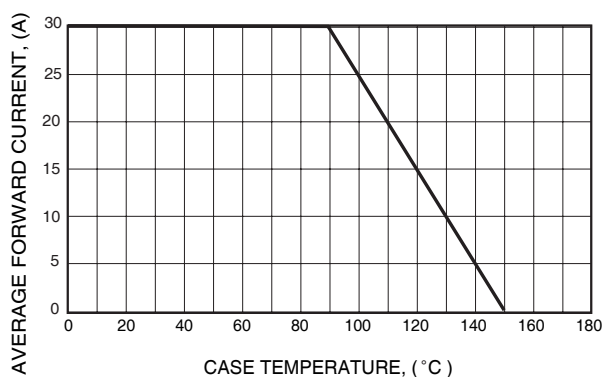


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

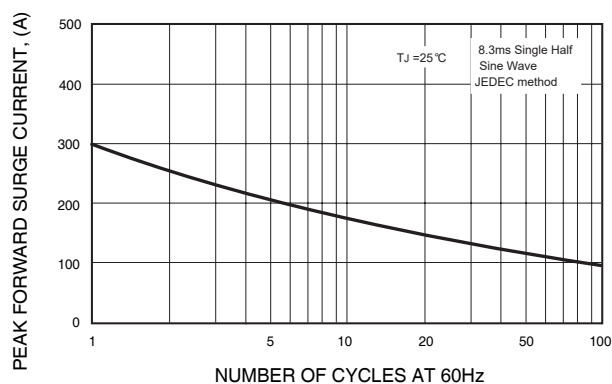


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

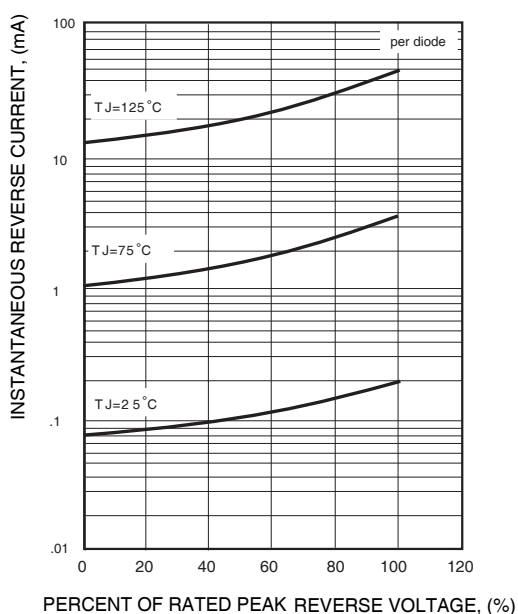


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

