

VOLTAGE RANGE: 100V

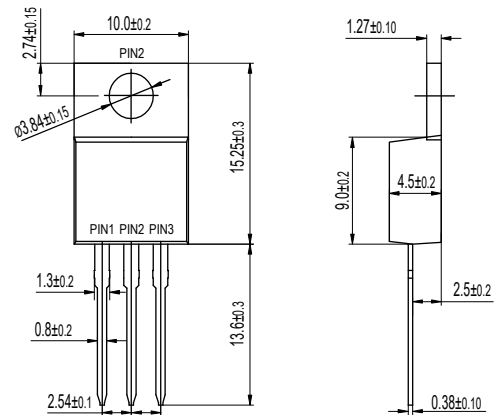
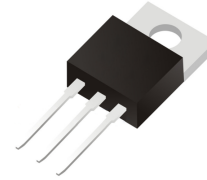
CURRENT: 10A

Features

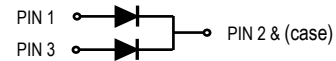
- Ultra low vf
- High efficiency operation
- Low power loss
- Low stored charge majority carrier conduction
- High forward surge capability
- Lead free in compliance with EU RoHS 2011/65/EU directive

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: TO-220AB 1.85 grams



TO-220AB



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

RATINGS	SYMBOL	SBL10100CT	UNIT
Maximum repetitive reverse voltage	VRRM	100	V
Maximum RMS voltage	VRMS	70	V
Maximum DC blocking voltage	VDC	100	V
Maximum average forward current per device per diode	IAV	10 5	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	150	A
Typical thermal resistance per diode (Note 1)	R θ -JC	2.0	$^\circ\text{C}/\text{W}$
Operating junction temperature range	TJ	-55 to +150	$^\circ\text{C}$
Storage temperature range	TSTG	-55 to +150	$^\circ\text{C}$

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	100	-	-	V	
Instantaneous forward voltage per diode	V _F	I _F =5A T _J =25°C	-	0.67	0.70	V	
		I _F =5A T _J =125°C	-	-	0.62	V	
Reverse current per diode	I _R	V _R =100V	T _J =25°C	-	-	100	μA
			T _J =125°C	-	-	30	mA

