

# SB1045LCT THRU SB10150LFCT

SB1045	SB1060	SB10100	SB10150
LCT/LFCT	LCT/LFCT	LCT/LFCT	LCT/LFCT

CURRENT 10 Ampere  
 VOLTAGE RANG 45 to 150 Volts

## SB1045LCT THRU SB10150LFCT

Electrical Characteristics - (per leg) (  $T_A = 25$  unless otherwise specified )

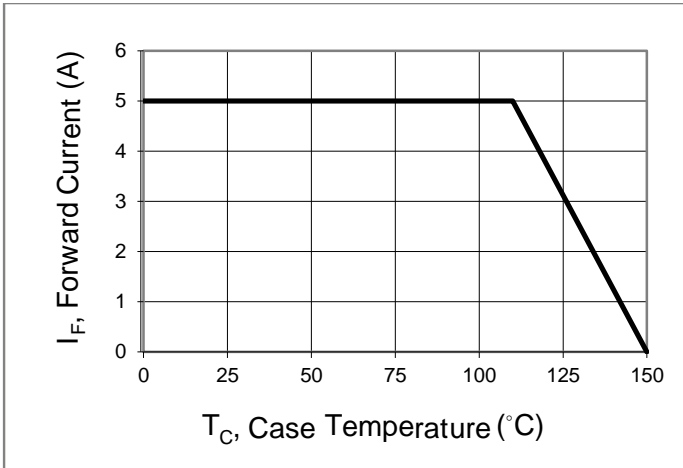
	Parameter	Test Conditions	Symbol	Typ.	Max.	Units	
SB10145LCT/LFCT	Instantaneous Forward Voltage	$I_F = 2$ A	$T_j = 25$	$V_F^*$	0.28	-----	Volts
		$I_F = 5$ A			0.40	0.44	
		$I_F = 2$ A	$T_j = 125$				
		$I_F = 5$ A			0.35	0.39	
	Instantaneous Reverse Current	$V_R = 36$ V	$T_j = 25$	$I_R^*$	3	-----	uA
		$V_R = 45$ V			12	50	uA
		$V_R = 36$ V	$T_j = 125$		-----	-----	mA
		$V_R = 45$ V			-----	5	mA
SB1060LCT/LFCT	Instantaneous Forward Voltage	$I_F = 2$ A	$T_j = 25$	$V_F^*$	0.33	-----	Volts
		$I_F = 5$ A			0.46	0.50	
		$I_F = 2$ A	$T_j = 125$		0.24	-----	
		$I_F = 5$ A			0.40	0.42	
	Instantaneous Reverse Current	$V_R = 42$ V	$T_j = 25$	$I_R^*$	4	-----	uA
		$V_R = 60$ V			12	60	uA
		$V_R = 42$ V	$T_j = 125$		-----	-----	mA
		$V_R = 60$ V			-----	5	mA
SB10100LCT/LFCT	Instantaneous Forward Voltage	$I_F = 2$ A	$T_j = 25$	$V_F^*$	0.42	-----	Volts
		$I_F = 5$ A			0.58	0.63	
		$I_F = 2$ A	$T_j = 125$		0.35	-----	
		$I_F = 5$ A			0.52	0.54	
	Instantaneous Reverse Current	$V_R = 70$ V	$T_j = 25$	$I_R^*$	4	-----	uA
		$V_R = 100$ V			12	60	uA
		$V_R = 70$ V	$T_j = 125$		-----	-----	mA
		$V_R = 100$ V			-----	5	mA
SB10150LCT/LFCT	Instantaneous Forward Voltage	$I_F = 2$ A	$T_j = 25$	$V_F^*$	0.50	-----	Volts
		$I_F = 5$ A			0.67	0.71	
		$I_F = 2$ A	$T_j = 125$		0.40	-----	
		$I_F = 5$ A			0.63	0.66	
	Instantaneous Reverse Current	$V_R = 105$ V	$T_j = 25$	$I_R^*$	4	-----	uA
		$V_R = 150$ V			12	60	uA
		$V_R = 105$ V	$T_j = 125$		-----	-----	mA
		$V_R = 150$ V			-----	5	mA

\* Pulse width < 300 uS, Duty cycle < 2%

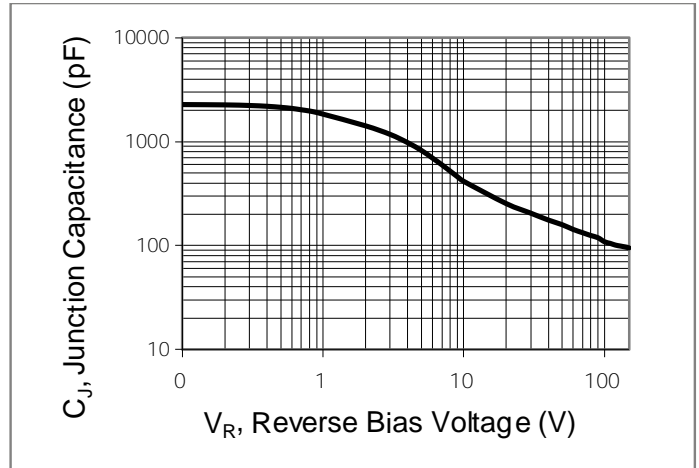
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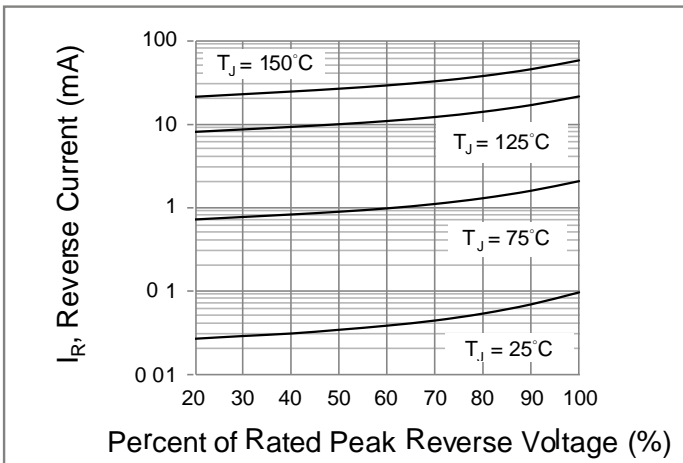
### RATING AND CHARACTERISTIC CURVES



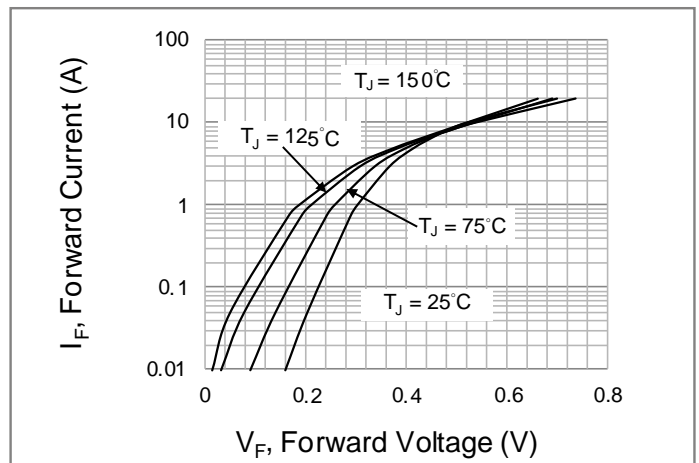
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**

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## Package information

Package outline Dimensions millimeters

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