

SBL3030PT thru 3045PT

TO-3P

REVERSE VOLTAGE – 30 to 45 Volts FORWARD CURRENT – 30 Amperes

SCHOTTKY BARRIER RECTIFIERS

FEATURES

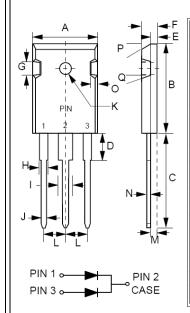
- Metal of silicon rectifier, majority carrier conduction
- · Guard ring for transient protection
- · Low power loss, high efficiency
- · High current capability, low VF
- · High surge capability
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

Case: TO-3P molded plastic
Polarity: As marked on the body
Weight: 0.2 ounces, 5.6 grams

· Mounting position: Any

• Max. mounting torque = 0.5 N.m (5.1 Kgf-cm)



TO-3P						
DIM.	MIN. MAX.					
A B	15.75 16.25					
В	21.25	21.75				
C D	19.60	20.10				
D	3.78	4.38				
E	1.88	2.08				
F	4.87	5.13				
G	4.4TYP.					
Н	1.90	2.16				
I	2.93	3.22				
J K	1.12	1.22				
K	2.90 Ø	3.20 Ø				
L	5.20	5.70				
М	2.10	2.40				
N	0.51	0.76				
N O P	1.93	2.18				
	20°TYP					
Q	10°TYP					
All Dimensions in millimeter						

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

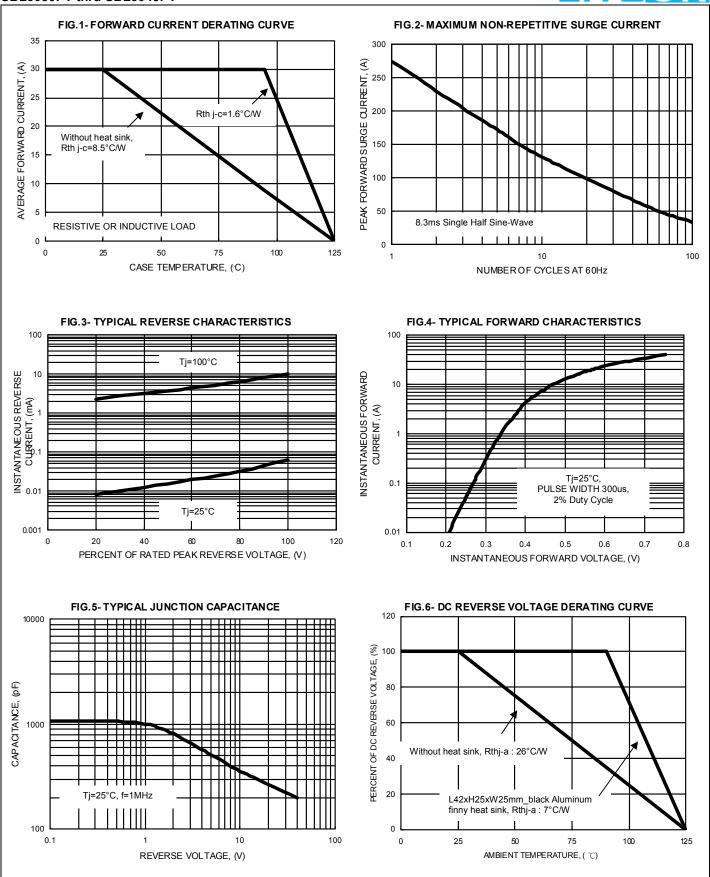
Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	SBL3030PT	SBL3035PT	SBL3040PT	SBL3045PT	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	30	35	40	45	V
Maximum RMS Voltage	V _{RMS}	21	24.5	28	31.5	V
Maximum DC Blocking Voltage	V _{DC}	30	35	40	45	V
Maximum Average Forward @TC=95°C Rectified Current (See Fig.1)	I _(AV)	30			А	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	275				А
Maximum forward Voltage at 15.0 A DC per element	VF	0.55				V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage per element @Tj=100°C	IR	0.5 50				mA
Typical Junction Capacitance per element (Note 1)	CJ		РF			
Typical Thermal Resistance (Note 2)	R⊖ _{JC}	1.6				°C/W
Operating junction temperature range	TJ	-55 to +125				°C
Storage temperature range	T _{STG}	-55 to +150			°C	
Note:					REV. 2, Apr-2011	, KTHD27

(1) Measured at 1.0MHz and applied reverse voltage of 4.0 V_{DC} .

(2) Thermal Resistance Junction to Case, device mounted on L150 x W150 x H2mm_copper heat sink.







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