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Diodes Incorporated SBL3045CT

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Distributor of Diodes Incorporated: Excellent Integrated System Limited

Datasheet of SBL3045CT - DIODE ARRAY SCHOTTKY 45V TO220AB

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SBL3045CT

30A SCHOTTKY BARRIER RECTIFIER

Features

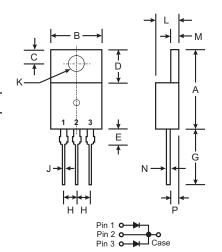
NOT RECOMMENDED FOR NEW DESIGNS **USE MBR3045CT**

- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- Lead Free Finish, RoHS Compliant (Note 3)

Mechanical Data

Case: TO-220AB

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Bright Tin. Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Marking: Type Number
- Weight: 2.24 grams (approx.)



TO-220AB				
Dim	Min	Max		
Α	14.48	15.75		
В	10.00	10.40		
С	2.54	3.43		
D	5.90	6.40		
Е	2.80	3.93		
G	12.70	14.27		
Н	2.40	2.70		
J	0.69	0.93		
K	3.54	3.78		
L	4.07	4.82		
М	1.15	1.39		
N	0.30	0.50		
Р	2.04	2.79		
All Dimensions in mm				

Maximum Ratings and Electrical Characteristics

@ T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		45	V
RMS Reverse Voltage	V _{R(RMS)}	32	V
Average Rectified Output Current (Note 1) @ $T_C = 100^{\circ}C$	I _O	30	А
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	250	А
Forward Voltage Drop @ I _F = 15A, T _C = 25°C	V _{FM}	0.55	V
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	I _{RM}	1.0 75	mA
Typical Total Capacitance (Note 2)	C _T	450	pF
Typical Thermal Resistance Junction to Case (Note 1)		1.5	°C/W
Operating Temperature Range		-55 to +125	°C
Storage Temperature Range		-55 to +150	°C

Notes:

- 1. Thermal resistance junction to case mounted on heatsink.
- 2. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.
- 3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.

Ordering Information (Note 4)

Device	Packaging	Shipping
SBL3045CT	TO-220AB	50/Tube

4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

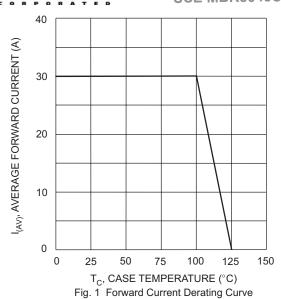


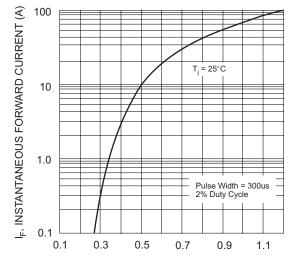
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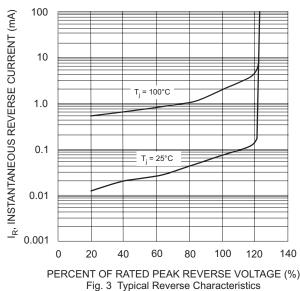
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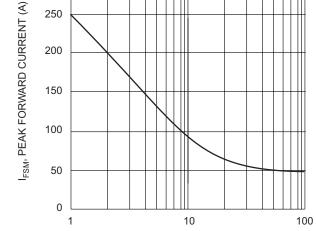




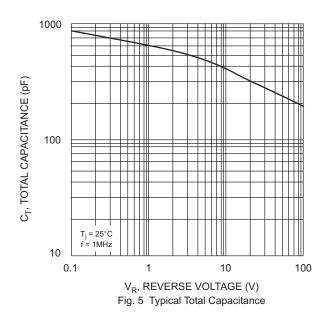
V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics

8.3 ms single half-sine-wave





NUMBER OF CYCLES AT 60Hz Fig. 4 Maximum Non-Repetitive Forward Surge Current



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