

SBG3030CT - SBG3060CT

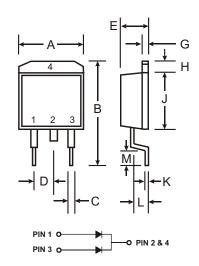
30A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 250A Peak
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- Plastic Material: UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: D²PAK Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Marking: Type Number
- Weight: 1.7 grams (approx.)
- Mounting Position: Any



D ² PAK						
Dim	Min	Max				
Α	9.65	10.69				
В	14.60	15.88				
С	0.51	1.14				
D	2.29	2.79				
E	4.37	4.83				
G	1.14	1.40				
Н	1.14	1.40				
J	8.25	9.25				
К	0.30	0.64				
L	2.03	2.92				
м	2.29	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		SBG 3030CT	SBG 3040CT	SBG 3045CT	SBG 3050CT	SBG 3060CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		30	40	45	50	60	V
RMS Reverse Voltage		21	28	32	35	42	V
Average Rectified Output Current @ $T_C = 100^{\circ}C$		30					Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		250					А
Forward Voltage, per Element @ $I_F = 15A$, $T_C = 25^{\circ}C$		0.55 0.70				70	V
Peak Reverse Current@ $T_C = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_C = 100^{\circ}C$		1.0 75					mA
Typical Junction Capacitance (Note 2)		420					pF
Typical Thermal Resistance Junction to Case (Note 1)		1.5					K/W
Operating and Storage Temperature Range		-65 to +150					°C

Notes: 1. Thermal resistance: junction to case mounted on heat sink.

2. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.



