



B540C

DIODE

5A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

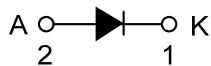
The UTC **B540C** is a schottky barrier rectifier; It provides the customers high efficiency and low power loss.

The UTC **B540C** is suitable for automatic assembly high frequency inverters and low voltage application, etc.

FEATURES

- * High efficiency
- * Low power loss

SYMBOL



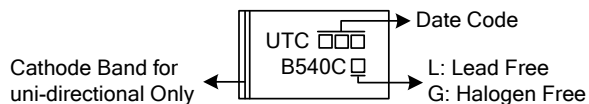
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
B540CL-SMC-R	B540CG-SMC-R	SMC	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

 B540CL-SMC-R (1)Packing Type (2)Package Type (3)Green Package	(1) R: Tape Reel (2) SMC: SMC (3) L: Lead Free, G: Halogen Free and Lead Free
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MARKING



■ **ABSOLUTE MAXIMUM RATINGS** ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Maximum Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Average Rectified Output Current ($T_T=90^{\circ}\text{C}$)	I_O	5	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load (JEDEC Method)	I_{FSM}	175	A
Operating Temperature	T_J	$-55\sim+125$	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	$-55\sim+150$	$^{\circ}\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ **THERMAL DATA**

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	50	$^{\circ}\text{C}/\text{W}$

Note: 8.0mm^2 (0.13mm thick) land pads.

■ **ELECTRICAL CHARACTERISTICS** ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Forward Voltage $I_F=5\text{A}$ (Note 1)	V_F	0.55	V
DC Reverse Current at Rated DC	I_R	0.5	mA
Blocking Voltage (Note 1)		20	mA
Typical Total Capacitance (Note 2)	C_T	300	pF

Notes: 1. Pulse Test Pulse Width 300 μs , Duty Cycle 2%.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V.

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