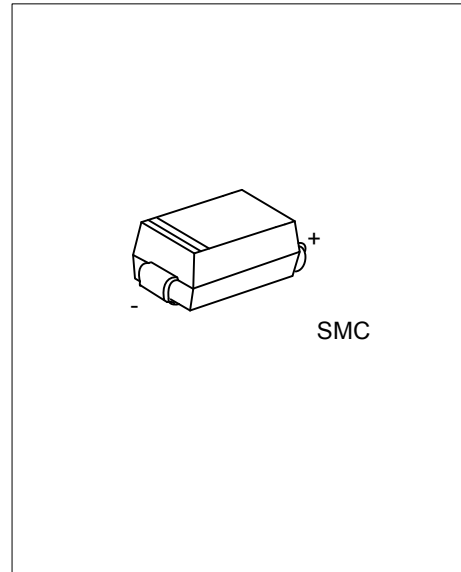




## B540C

DIODE

### 5A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



#### DESCRIPTION

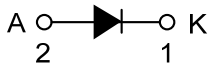
The UTC **B540C** is a schottky barrier rectifier; It provides the customers high efficiency and low power loss.

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

#### FEATURES

- \* High efficiency
- \* Low power loss

#### SYMBOL



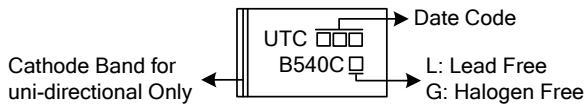
#### ORDERING INFORMATION

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

<p>B540CL-SMC-R</p> <p>(1) Packing Type (2) Package Type (3) Green Package</p>	<p>(1) R: Tape Reel (2) SMC: SMC (3) L: Lead Free, G: Halogen Free and Lead Free</p>
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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~+125	$^{\circ}\text{C}$
Storage Temperature	$T_{STG}$	-55~+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	$\theta_{JA}$	50	$^{\circ}\text{C}/\text{W}$

Note:  $8.0\text{mm}^2$  (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 Blocking Voltage (Note 1)	$I_R$	$T_A=25^{\circ}\text{C}$	0.5
		$T_A=100^{\circ}\text{C}$	20
Typical Total Capacitance (Note 2)	$C_T$	300	pF

Notes: 1. Pulse Test Pulse Width  $300\mu\text{s}$ , Duty Cycle 2%.

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

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