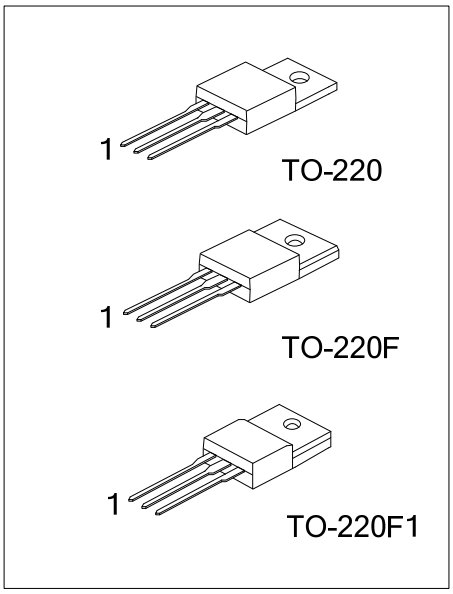
SBL1540 **Preliminary** ***DIODE***

SCHOTTKY BARRIER RECTIFIER



■ DESCRIPTION

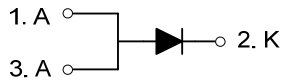
The UTC **SBL1540** is schottky barrier rectifier, it uses UTC's advanced technology to provide the customers with low power loss, low forward voltage drop, high efficiency and high surge capability.

The UTC **SBL1540** is suitable for low voltage, high frequency inverters, freewheeling, and polarity protection applications.

■ FEATURES

* Low power loss
* Low forward voltage drop
* High efficiency
* High surge capability
* High current capability

■ SYMBOL



■ ORDERING INFORMATION

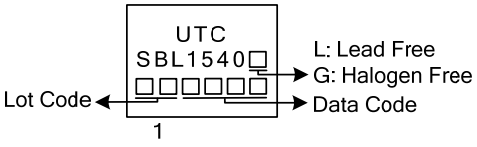
Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
SBL1540L-TA3-T	SBL1540G-TA3-T	TO-220	A	K	A	Tube
SBL1540L-TF3-T	SBL1540G-TF3-T	TO-220F	A	K	A	Tube
SBL1540L-TF1-T	SBL1540G-TF1-T	TO-220F1	A	K	A	Tube

Note: Pin Assignment: A: Athode K: Cathode

SBL1540L-TA3-T

(1) Packing Type	(1) T: Tube
(2) Package Type	(2) TA3: TO-220, TF3: TO-220F, TF1: TO-220F1
(3) Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free

■ MARKING



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V_{RM}	40	V
Recurrent Peak Reverse Voltage	V_{RRM}	40	V
RMS Voltage	V_{RWM}	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	2.8	V
Average Forward Rectified Current	I_O	15	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load Per Diode	I_{FSM}	150	A
Operating Junction Temperature	T_J	-65~+150	°C
Storage Temperature	T_{STG}	-65~+150	°C

Notes: 1. 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.
2. Thermal resistance junction to case mounted on heatsink.

■ THERMAL CHARACTERISTICS (T_A =25°C, unless otherwise noted.)

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	62.5	°C/W
Junction to Case	θ_{JC}	3	°C/W

■ ELECTRICAL CHARACTERISTICS (Note 1) (T_A =25°C, unless otherwise noted.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	V_F	I_F=15A, T_J=25°C			0.55	V
Instantaneous Reverse Current at Rated DC Blocking Voltage Per Diode	I_R	V_R=40V, T_J=25°C			0.45	mA