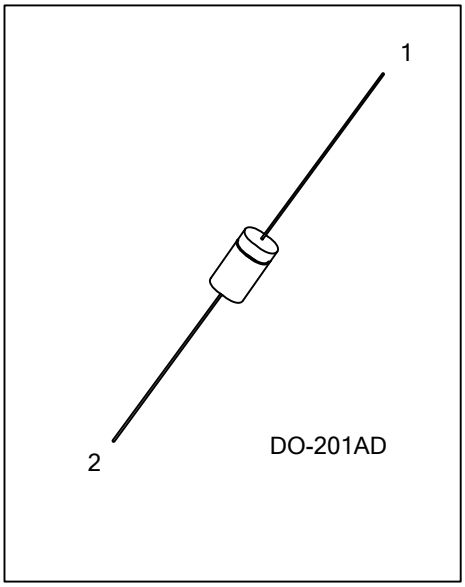
5.0A SCHOTTKY BARRIER RECTIFIER



■ DESCRIPTION

The UTC **SB560** is 5.0A schottky barrier rectifier. it uses UTC's advanced technology to provide customers with high current capability and low forward voltage drop, etc.

The UTC **SB560** is suitable for free wheeling, low voltage and polarity protection applications, etc.

■ FEATURES

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

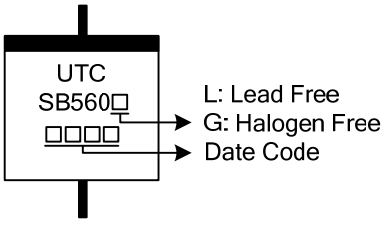
■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
SB560L-Z21D-R	SB560G-Z21D-R	DO-201AD	K	A	Tape Reel

Note: Pin Assignment: A: Anode, K: Cathode

SB560L-Z21D-R (1)Packing Type (2)Package Type (3)Lead Free	(1) R: Tape Reel (2) Z21D: DO-201AD (3) L: Lead Free, G: Halogen Free

■ MARKING INFORMATION

PACKAGE	MARKING
DO-201AD	

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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified.)(Note 2)

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V_R	60	V
Peak Repetitive Reverse Voltage	V_{RRM}	60	V
Working Peak Reverse Voltage	V_{RWM}	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	42	V
Average Rectified Output Current	I_O	5.0	A
Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	I_{FSM}	150	A
Power Dissipation	P_D	3.7	W
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. These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	40	°C/W

■ ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	I_R=0.50mA	60			V
Forward Voltage Drop	V_{FM}	I_F=5.0A, T_J=25°C			0.67	V
		I_F=5.0A, T_J=100°C			0.62	V
Leakage Current (Note 1)	I_{RM}	V_R=60V, T_J=25°C			0.5	mA
		V_R=60V, T_J=100°C			25	mA

Notes: 1. Short duration pulse test used to minimize self-heating effect.
2. Thermal resistance junction to case mounted on heatsink.

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