

UTC UNISONIC TECHNOLOGIES CO., LTD

SB560

Preliminary

DIODE

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

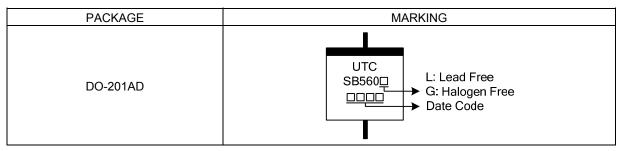
ORDERING INFORMATION

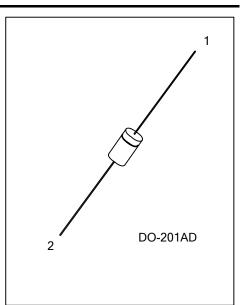
Lead Free Halogen Free 1 2	Ordering Number		Deekege	Pin Assignment		Deaking	
SB560L-Z21D-R SB560G-Z21D-R DO-201AD K A Tape Reel	Lead Free	Halogen Free	Package	1	2	Packing	
	SB560L-Z21D-R	SB560G-Z21D-R	DO-201AD	К	А	Tape Reel	

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

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

MARKING INFORMATION





■ 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	lo	5.0	А
Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	I _{FSM}	150	А
Power Dissipation	PD	3.7	W
Junction Temperature	TJ	-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	L TEST CONDITIONS		TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	V _{(BR)R}	I _R =0.50mA	60			V
	V _{FM}	I _F =5.0A, T _J =25°C			0.67	V
Forward Voltage Drop		I _F =5.0A, T _J =100°C			0.62	V
Lockers Current (Note 1)	DM	V _R =60V, T _J =25°C			0.5	mA
Leakage Current (Note 1)		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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