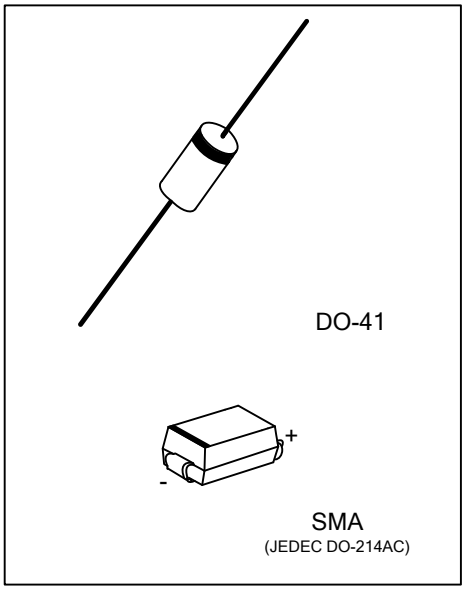
SB260

DIODE

2.0A SCHOTTKY BARRIER RECTIFIER



■ DESCRIPTION

The UTC **SB260** is a 2.0A schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop, high current capability and high efficiency, etc.

The UTC **SB260** is suitable for use in free wheeling, high frequency inverters, low voltage and polarity protection applications.

■ FEATURES

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

■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
SB260L-SMA-R	SB260G-SMA-R	SMA	K	A	Tape Reel
SB260L-Z41-B	SB260G-Z41-B	DO-41	K	A	Tape Box
SB260L-Z41-R	SB260G-Z41-R	DO-41	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

SB260L-SMA-R (1)Packing Type (2)Package Type (3)Green Package	(1) B: Tape Box, R: Tape Reel (2) SMA: SMA, Z41: DO-41 (3) L: Lead Free, G: Halogen Free and Lead Free

■ MARKING

SMA	DO-41
Cathode Band for uni-directional Only UTC □□□ S B 2 6 0 □ Date Code L: Lead Free G: Halogen Free	Cathode Band for uni-directional Only SB260□ □□□□ L: Lead Free G: Halogen Free Date Code

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

Single phase, half wave, 60Hz, resistive or inductive load.
For capacitance load, derate current by 20%.

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V_R	60	V
Working Peak Reverse Voltage	V_{RWM}	60	V
Repetitive Peak Reverse Voltage	V_{RRM}	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	42	V
Average Rectified Output Current (T_A=25°C) (Note 1)	I_O	2.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50	A
Operating Junction Temperature	T_J	-55~+125	°C
Storage Temperature	T_{STG}	-55~+125	°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	°C/W

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

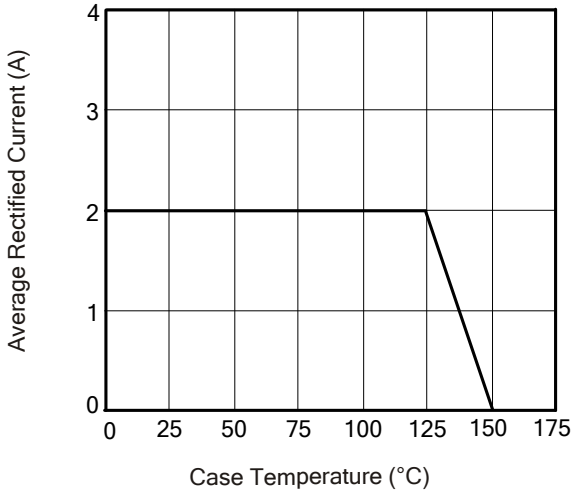
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitance load, derate current by 20%.

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage Drop	V_{FM}	I_F=2.0A			0.70	V
Peak Reverse Current at Rated DC Blocking Voltage	I_{RM}	T_A=25°C			0.5	mA
Junction Capacitance (Note 2)	C_J			190		pF

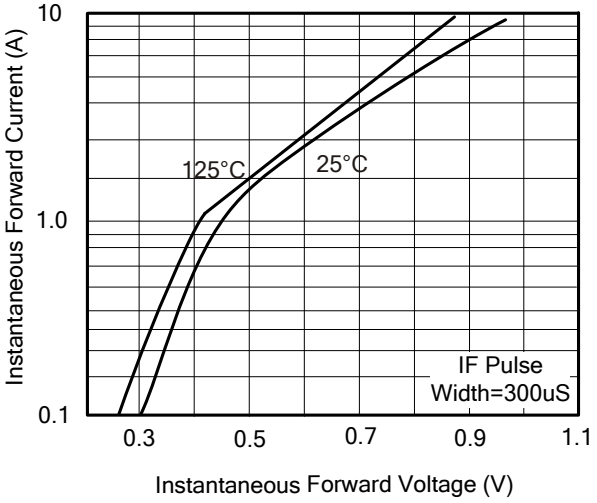
Notes: 1. Pulse width≤300μs, duty cycle≤2%.
2. Measured at 1.0MHz and applied reverse voltage of 5.0V DC.

■ TYPICAL CHARACTERISTICS

Forward Derating Curve



Typical Forward Characteristics



Typical Reverse Characteristics