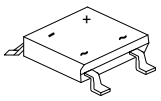
3.0A SCHOTTKY BRIDGE RECTIFIER



ABS

■ DESCRIPTION

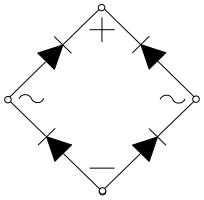
The UTC **SBS34** is a schottky bridge rectifiers, it uses UTC's advanced technology to provide customers with high surge current capability, etc.

The UTC **SBS34** is suitable for General purpose use in ac-to-dc bridge full wave rectification for LED bulb and telecommunication.

■ FEATURES

* High surge current capability

■ SYMBOL

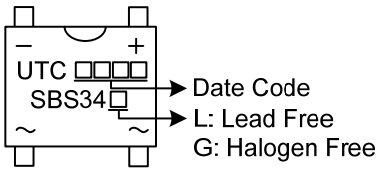


■ ORDERING INFORMATION

Ordering Number		Package	Packing
Lead Free	Green Package		
SBS34L-ABS-R	SBS34G-ABS-R	ABS	Tape Reel

SBS34L-ABS-R (1)Packing Type (2)Package Type (3)Green Package	(1) R: Tape Reel (2) ABS: ABS (3) L: Lead Free, G: G: Halogen Free and Lead Free

■ MARKING



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

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V_{DC}	40	V
RMS Voltage	V_{RMS}	28	V
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Average Forward Rectified Current	$I_{F(AV)}$	3	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	80	A
Rating for fusing (t<8.3mS)	I^2T	26	A^2s
Operating Junction Temperature Range (Note 2)	T_J	-55~+125	°C
Storage Temperature Range	T_{STG}	-55~+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. $\frac{dPtot}{dTj} < \frac{1}{\theta_{JA}}$ Condition to avoid thermal runaway based on the application thermal conduction, δ=0.5

■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	83	°C/W

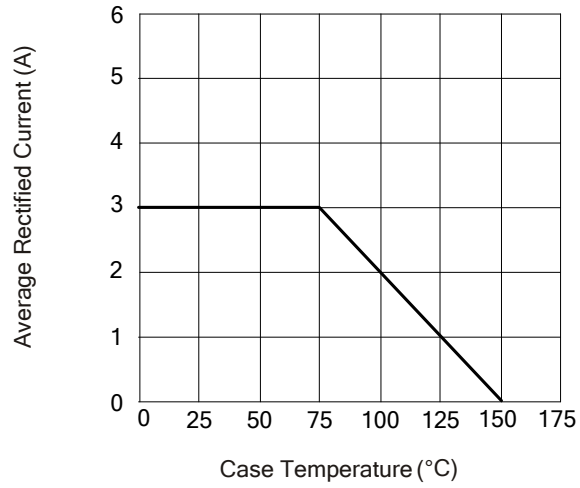
■ ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage (Note 1)	V_F	I_F=3A			0.50	V
DC Reverse Current at Rated DC Blocking Voltage (Note 2)	I_R	T_J=25°C			0.5	mA
		T_J=100°C			10	mA

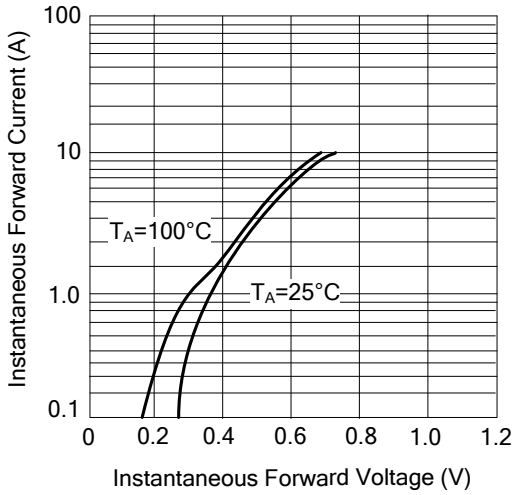
Notes: 1. Pulse test with P_W=300μs, 1% duty cycle.
2. Pulse test with P_W=40ms.

■ TYPICAL CHARACTERISTICS

Forward Derating Curve



Typical Forward Characteristics



Typical Reverse Characteristics