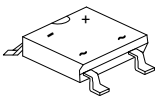
ABS22 THRU ABS210

SCHOTTKY BRIDGE DIODE

2.0A SCHOTTKY BRIDGE RECTIFIER



ABS

■ DESCRIPTION

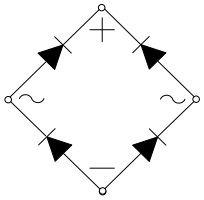
The UTC **ABS22 THRU ABS210** is a schottky bridge rectifier, it uses UTC's advanced technology to provide customers with high surge current capability and low forward voltage drop, etc.

The UTC **ABS22 THRU ABS210** is suitable for surface mount application.

■ FEATURES

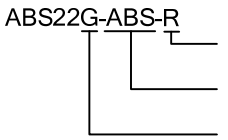
* Glass passivated die construction
* Low forward voltage drop
* High current capability
* High surge current capability
* Designed for surface mount application

■ SYMBOL



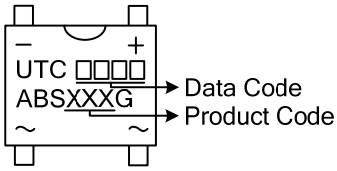
■ ORDERING INFORMATION

Ordering Number	Package	Packing
ABS22G-ABS-R	ABS	Tape Reel
ABS24G-ABS-R	ABS	Tape Reel
ABS26G-ABS-R	ABS	Tape Reel
ABS28G-ABS-R	ABS	Tape Reel
ABS210G-ABS-R	ABS	Tape Reel



(1) R: Tape Reel
(2) ABS: ABS
(3) G: Halogen Free and Lead Free

■ MARKING



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

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

PARAMETER	SYMBOL	RATINGS					UNIT
		ABS22	ABS24	ABS26	ABS28	ABS210	
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}	200	400	600	800	1000	V
DC Blocking Voltage	V_{DC}	200	400	600	800	1000	V
RMS Voltage	V_{RMS}	140	280	420	560	700	V
Average Rectified Output Current T_A=100°C	I_O	2					A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	60					A
Operating Junction Temperature Range	T_J	-55 ~ +150					°C
Storage Temperature Range	T_{STG}	-55 ~ +150					°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}	62.5	°C/W

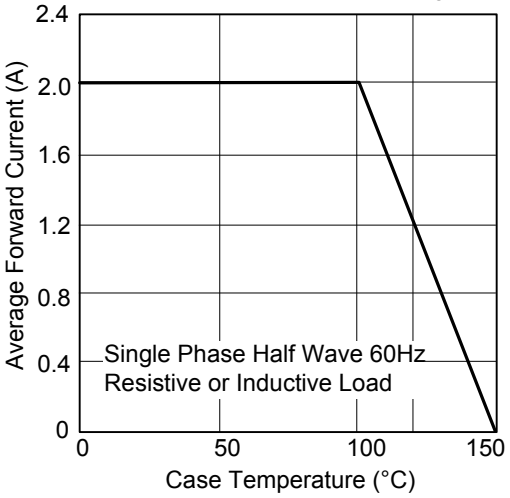
Note: Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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

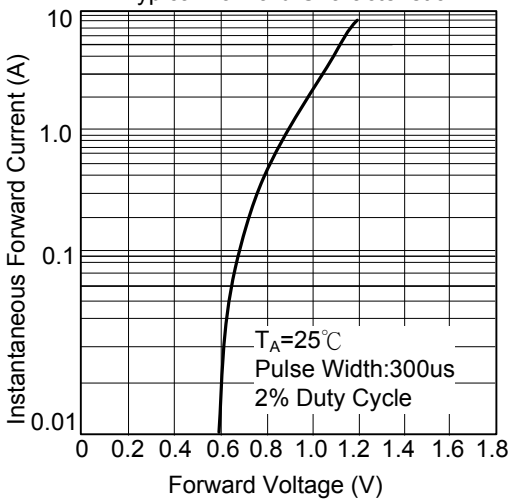
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage Per Element	V_F	I_F=1.0A			0.95	V
		I_F=2.0A			1.0	V
Peak Reverse Current at Rated DC Blocking Voltage	I_R	T_A=25°C			5.0	μA
		T_A=125°C			200	μA

■ TYPICAL CHARACTERISTICS

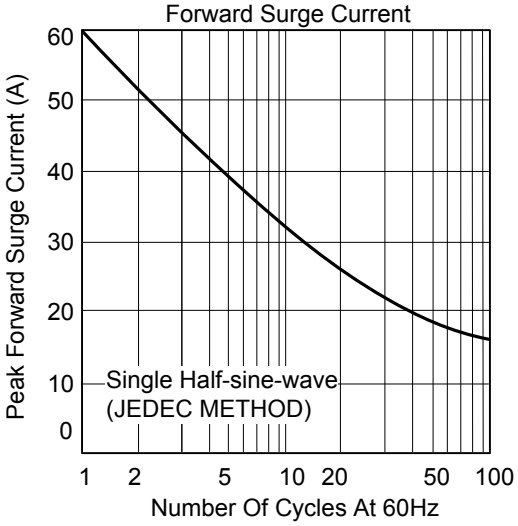
Maximum Forward Current Derating Curve



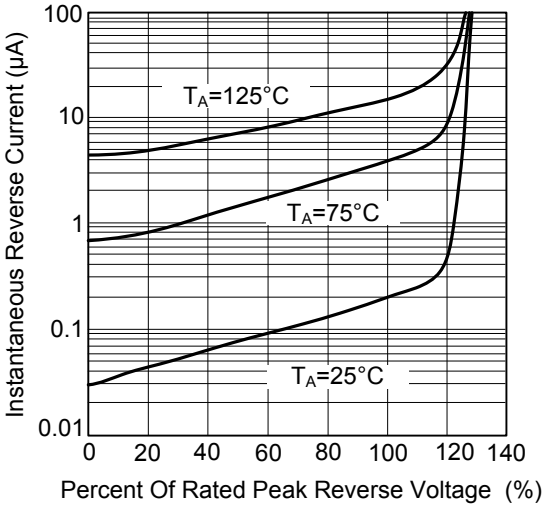
Typical Forward Characteristic



Maximum Non-repetitive Forward Surge Current



Typical Reverse Characteristics



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