

UTC UNISONIC TECHNOLOGIES CO., LTD

S₂M **Preliminary** DIODE

SURFACE MOUNT GENERAL RECTIFIER

DESCRIPTION

The UTC S2M is a surface mount general rectifier, it uses UTC's advanced technology to provide customers with high forward surge current and low reverse leakage, etc.

The UTC S2M is suitable for surface mounted applications.

FEATURES

- * Low reverse leakage
- * High forward surge current capability

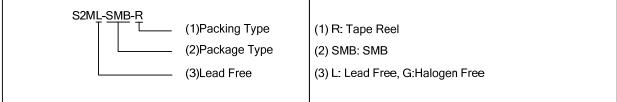
SYMBOL



ORDERING INFORMATION

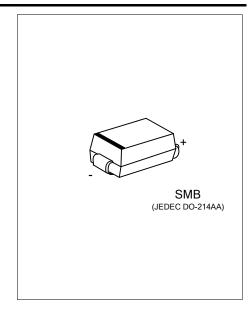
Ordering Number		Dankana	Pin Ass	Da alsia a		
Lead Free	Halogen Free	Package	1	2	Packing	
S2ML-SMB-R	S2MG-SMB-R	SMB	K	Α	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



MARKING INFORMATION

PACKAGE	MARKING			
SMB	Cathode Band for uni-directional Only Date Code L: Lead Free G: Halogen Free			



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ABSOLUTE MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
RMS Voltage	V_{RMS}	700	V
DC Blocking Voltage	V_{DC}	1000	V
Average Forward Rectified Current at T _L =110°C	I _(AV)	2.0	Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	60.0	А
Junction Temperature	TJ	-65~+175	°C
Storage Temperature	T _{STG}	-65~+175	°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 (Note 2)	θ.ja	50	°C/W

■ ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	V_{F}	I _F =2.0A			1.1	V
DC Reverse Current at Rated DC Blocking		T _A =25°C			5.0	μΑ
Voltage	IR	T _A =100°C			50.0	μΑ
Junction Capacitance (Note 1)	CJ			30.0		pF

Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

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