



MM1ZXX

Preliminary

ZENER DIODE

**SURFACE MOUNT SILICON
ZENER DIODE**

■ DESCRIPTION

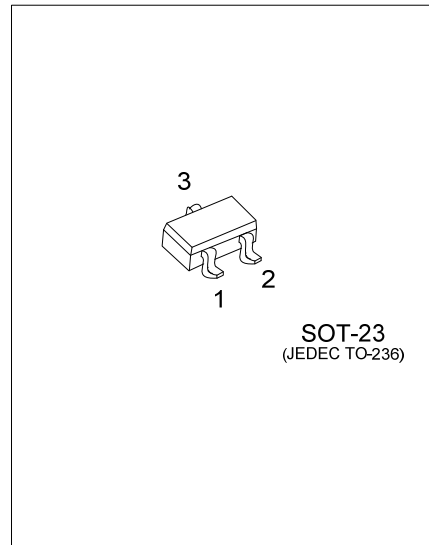
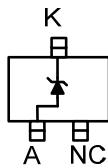
The UTC **MM1ZXX** is a surface mount silicon zener diode, it uses UTC's advanced technology to provide customers with low reverse leakage current, etc.

The UTC **MM1ZXX** is suitable for automated assembly processes.

■ FEATURES

- * Total Power Dissipation 500 mW
- * Wide Zener Reverse Voltage Range 2.4 V to 75 V
- * Package Designed for Optimal Automated Board Assembly
- * Small Package Size for High Density Applications

■ SYMBOL



■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
MM1ZXXL-AE3-R	MM1ZXXG-AE3-R	SOT-23	A	NC	K	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>MM1ZXXG-AE3-R</p> <ul style="list-style-type: none"> (1) Packing Type (2) Package Type (3) Green Package 	<ul style="list-style-type: none"> (1) R: Tape Reel (2) AE3: SOT-23 (3) G: Halogen Free and Lead Free, L: Lead Free
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■ MARKING INFORMATION

PACKAGE	VOLTAGE CODE	MARKING
SOT-23	30: 30V	

■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Forward Voltage at $I_F = 10\text{ mA}$	V_F	0.9	V
Power Dissipation	P_D	350	mW
Junction Temperature	T_J	+150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-40 ~ +150	$^{\circ}\text{C}$

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	RATING	UNIT
Junction to Ambient	θ_{JA}	357	$^{\circ}\text{C/W}$

■ ELECTRICAL CHARACTERISTICS ($V_F=1.2\text{V Max. @ } I_F=100\text{mA}$ for all types)

Part Number	Marking Code	Zener Voltage (Note 2)			Test Current I_{ZT} (mA)	Dynamic Impedance (Note 3)		Reverse Leakage Current		Coefficient of Zener Voltage	
		$V_Z @ I_{ZT}$ (V)				$Z_{ZT} @ I_{ZT}$		$I_R @ V_R$		$TK_{VZ}(\%/K)$	
		Min.	Typ.	Max.	Max. (Ω)	I_Z (mA)	Max. (μA)	@ V_R (V)	MIN	MAX	
MM1Z30	30	28	30	32	5	80	2	0.1	23	0.04	0.12

Notes: 1. The type number shown have a standard tolerance of $\pm 5\%$ on the nominal Zener Voltage.

2. V_Z is tested with pulses (20ms).

3. V_Z is measured at I_Z by given a very small A.C. current signal.

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