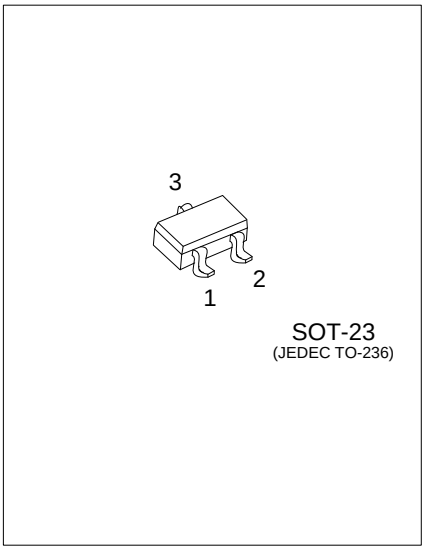
ZDXXVS **Preliminary** ***ZENER DIODE***

SURFACE MOUNT SILICON ZENER DIODE



■ DESCRIPTION

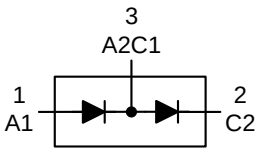
The UTC **ZDXXVS** is a surface mount silicon zener diode, it uses UTC's advanced technology to provide customers with low reverse leakage current, etc.

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

■ FEATURES

* Low reverse leakage current

■ SYMBOL



■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
ZDXXVSL-AE3-R	ZDXXVSG-AE3-R	SOT-23	A1	A2C1	C2	Tape Reel

Notes: 1. Pin assignment: A: Anode C: Cathode NC: No Connection
2. XX: Zener Voltage, refer to Marking Information.

ZDXXVSG-AE3-R

(1) Packing Type	(1) R: Tape Reel
(2) Package Type	(2) AE3: SOT-23
(3) Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free
(4) Zener Voltage	(4) refer to Marking Information

■ MARKING INFORMATION

PACKAGE	VOLTAGE CODE	MARKING
SOT-23	7.5: 7.5V 9.1: 9.1V	Voltage Code → XXXS

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

PARAMETER	SYMBOL	RATINGS	UNIT
Power Dissipation	P_D	225	mW
Derating above 25°C		1.8	mW/°C
Junction Temperature	T_J	+150	°C
Storage Temperature	T_{STG}	-40 ~ +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	RATING	UNIT
Junction to Ambient	θ_{JA}	417	°C/W

■ ELECTRICAL CHARACTERISTICS (V_F=1.2V Max @ I_F=100mA for all types)

Device	Marking Code	Nominal Zener Voltage				Zener Impedance				Reverse Leakage Current	
		V_Z @ I_{ZT} (V)			I_{ZT}	Z_{ZT} @ I_{ZT}		Z_{ZK} @ I_{ZK}		I_R @ V_R	
		MIN	TYP	MAX	(mA)	Max (Ω)	I_Z(mA)	Max (Ω)	I_Z(mA)	Max (μA)	@V_R (V)
ZD7.5	7.5S	7.29	7.5	7.71	5	6	20	500	0.25	3	6
ZD9.1	9.1S	8.84	9.1	9.35	5	10	20	600	0.25	3	6.5

Note: V_Z is measured at IZ by given a very small A.C current signal.

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