

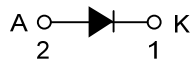
**1N4745A****DIODE****ZENER DIODE****DESCRIPTION**

The UTC **1N4745A** is a zener diode, it uses UTC's advanced technology to provide customers with low inductance and low reverse leakage, etc.

The UTC **1N4745A** is suitable for use in stabilizing and clipping with high power rating.

FEATURES

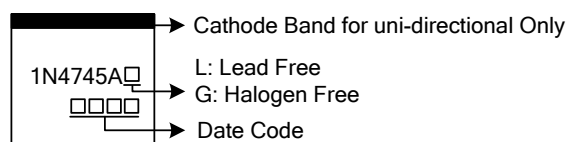
- * Low reverse leakage
- * Low inductance
- * Glass passivated chip

SYMBOL**ORDERING INFORMATION**

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
1N4745AL-Z41-R	1N4745AG-Z41-R	DO-41	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

1N4745AL-Z41-B (1) Packing Type (2) Package Type (3) Green Package	(1) B: Tape Box, R: Tape Reel (2) Z41: DO-41 (3) L: Lead Free, G: Halogen Free and Lead Free
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MARKING

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

PARAMETER	SYMBOL	RATINGS	UNIT
Forward Voltage at $I_F=200\text{mA}$	V_F	1.2	V
DC Power Dissipation at $T_L=50^{\circ}\text{C}$ (Note 2)	P_D	1	W
Junction Temperature	T_J	$-55\sim+175$	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	$-55\sim+175$	$^{\circ}\text{C}$

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. T_L =Lead temperature at 3/8 " (9.5mm) from body.

3. Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.

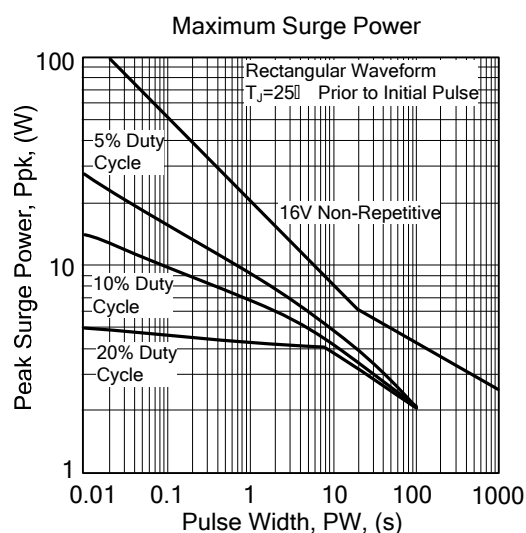
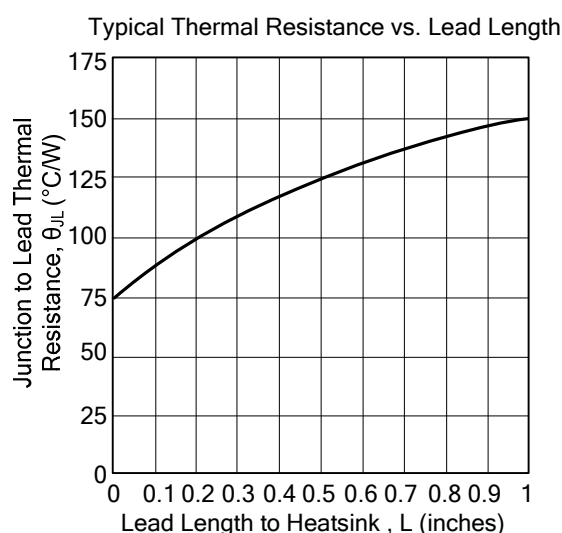
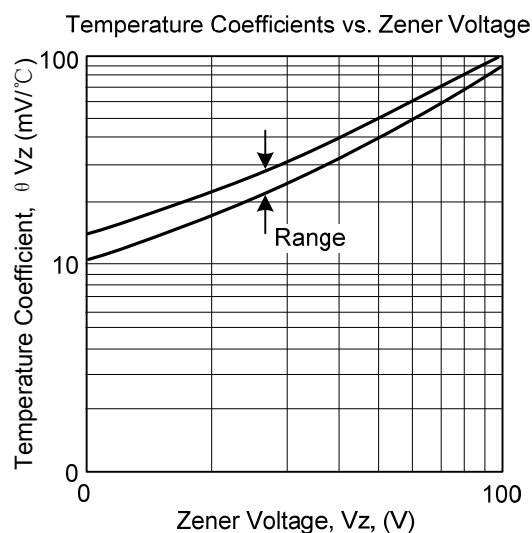
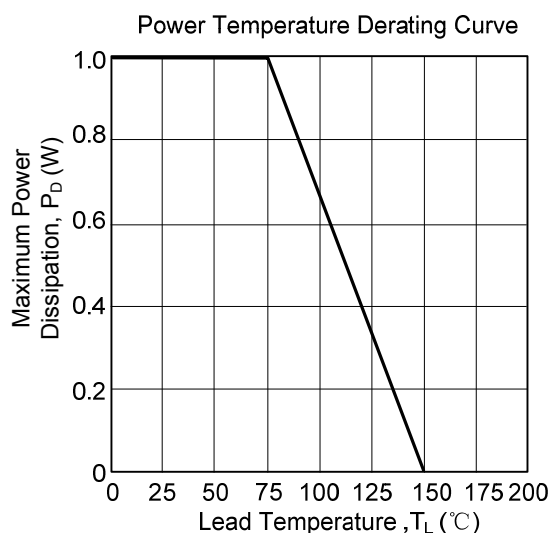
■ **THERMAL DATA**

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient Air (Note 3)	θ_{JA}	170	$^{\circ}\text{C/W}$

■ **ELECTRICAL CHARACTERISTICS(Cont.)**

PART NUMBER	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current	Maximum Surge Current
	$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	$I_R @ V_R$		I_{ZM}	I_{RM}
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)	(mApK)
1N4745A	16	15.5	16	700	0.25	0.1	12.2	57	285

■ TYPICAL CHARACTERISTICS



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