



## 1N4745A

DIODE

### ZENER DIODE

#### DESCRIPTION

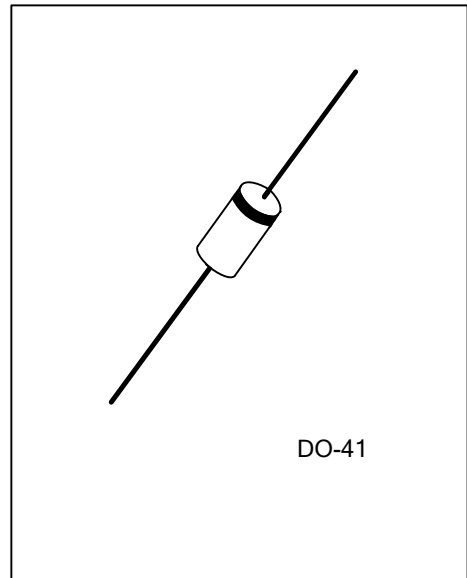
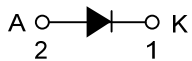
The UTC **1N4745A** is a zener diode, it uses UTC's advanced technology to provide customers with low inductance and low reverse leakage, etc.

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

<p>1N4745AL-Z41-R</p> <p>(1)Packing Type (2)Package Type (3)Lead Free</p>	<p>(1) R: Tape Reel (2) Z41: DO-41 (3) L: Lead Free, G: Halogen Free</p>
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#### MARKING INFORMATION

PACKAGE	MARKING
DO-41	<p>→ Cathode Band for uni-directional Only → L: Lead Free → G: Halogen Free → Date Code</p>

■ 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~+175	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-55~+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.

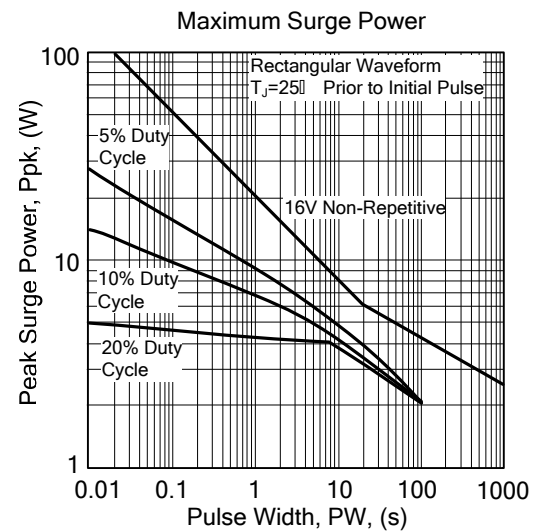
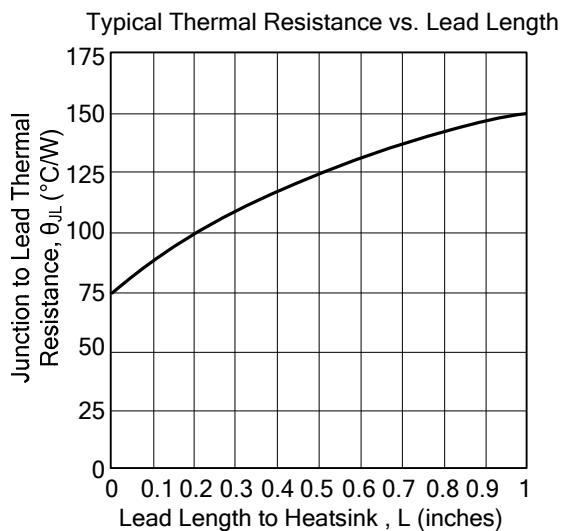
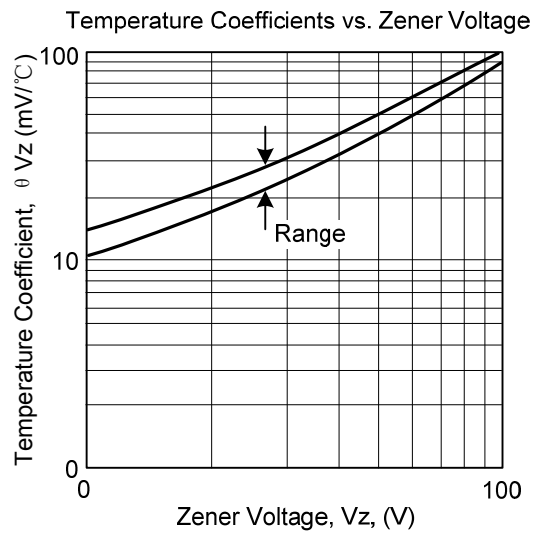
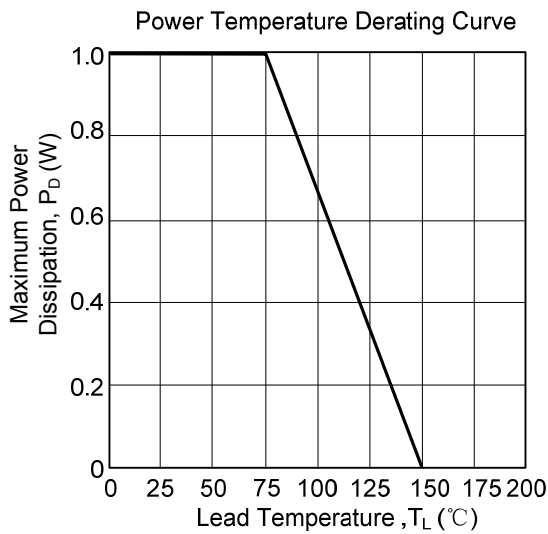
■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient Air (Note 3)	$\theta_{JA}$	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)	( $\Omega$ )	( $\Omega$ )	(mA)	( $\mu\text{A}$ )	(V)	(mA)	(mApK)
1N4745A	16	15.5	16	700	0.25	0.1	12.2	57	285

## TYPICAL CHARACTERISTICS



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