



1N4745A

DIODE

ZENER DIODE

DESCRIPTION

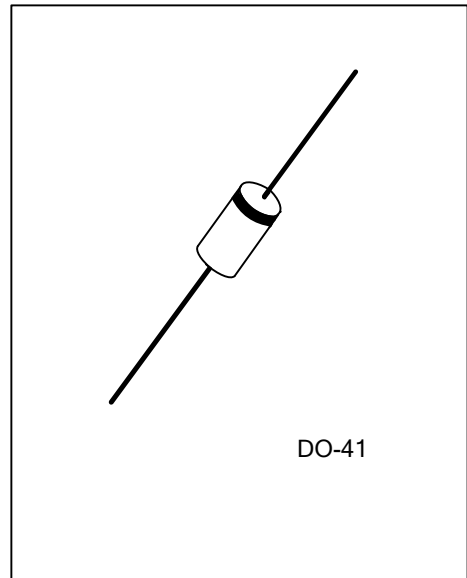
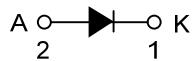
The UTC **1N4745A** is a zener diode, it uses UTC's advanced technology to provide customers with low inductance and low reverse leakage, etc.

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



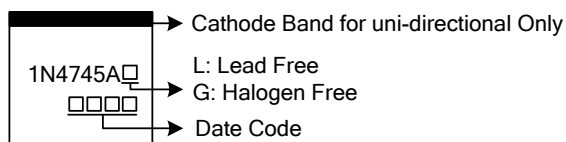
ORDERING INFORMATION

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



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

PARAMETER	SYMBOL	RATINGS	UNIT
Forward Voltage at I _F =200mA	V _F	1.2	V
DC Power Dissipation at T _L =50°C (Note 2)	P _D	1	W
Junction Temperature	T _J	-55~+175	°C
Storage Temperature	T _{STG}	-55~+175	°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.

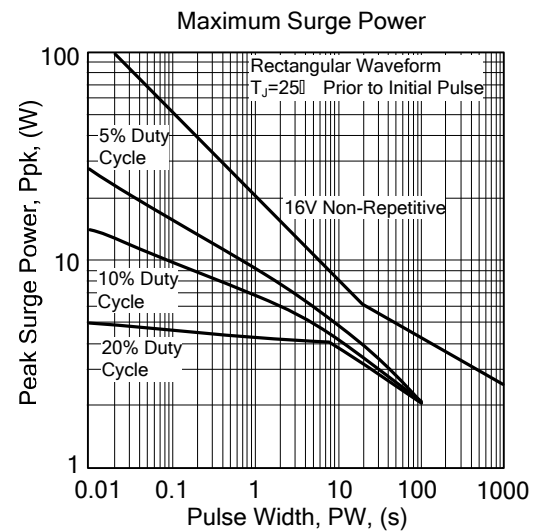
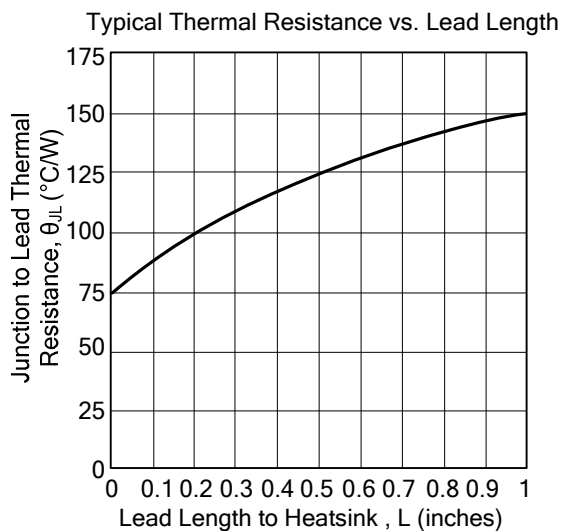
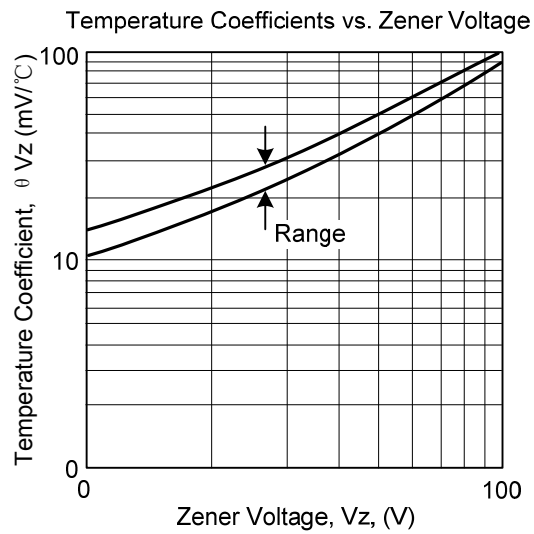
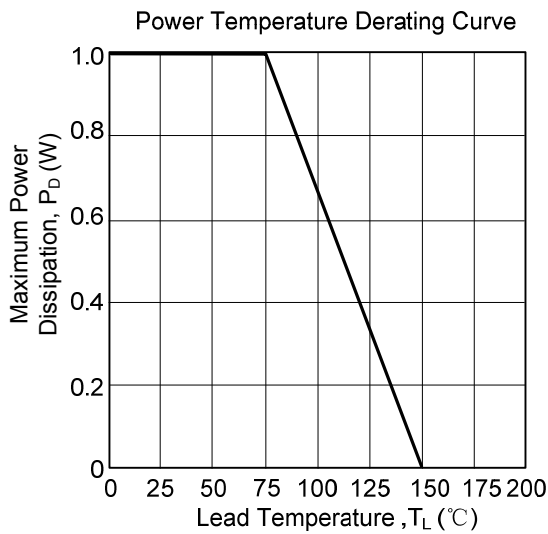
■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient Air (Note 3)	θ _{JA}	170	°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



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.