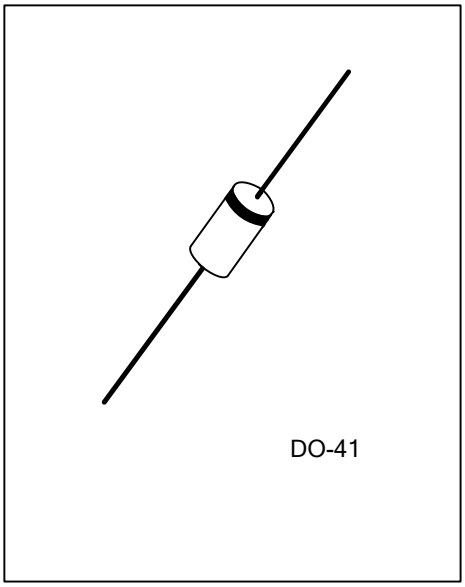
1N4745A

DIODE

ZENER DIODE



■ DESCRIPTION

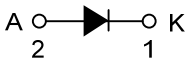
The UTC **1N4745A** is a zener diode, it uses UTC's advanced technology to provide customers with low inductance and low reverse leakage, etc.

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



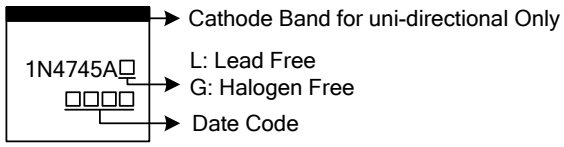
■ ORDERING INFORMATION

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

■ 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

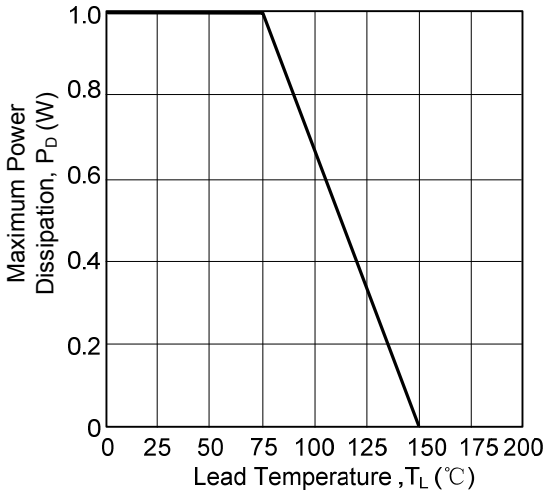
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient Air (Note 3)	θ_{JA}	170	°C/W

■ ELECTRICAL CHARACTERISTICS(Cont.)

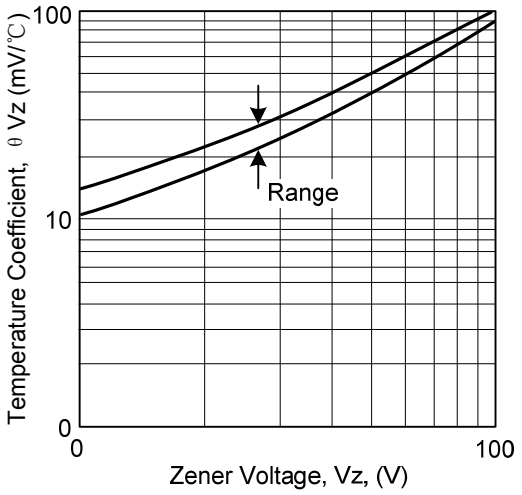
PART NUMBER	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current	Maximum Surge Current
	V_Z @ I_{ZT}	I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}	I_{ZK}	I_R @ V_R		I_{ZM}	I_{RM}
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)	(mApK)
1N4745A	16	15.5	16	700	0.25	0.1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

■ TYPICAL CHARACTERISTICS

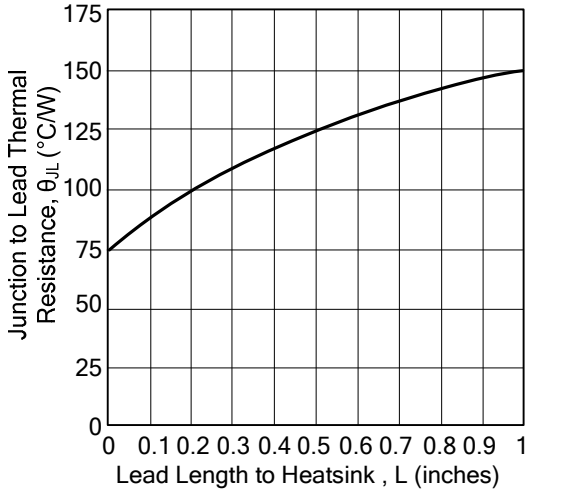
Power Temperature Derating Curve



Temperature Coefficients vs. Zener Voltage



Typical Thermal Resistance vs. Lead Length



Maximum Surge Power