

# Z043A - Z0200A

$V_Z$  : 43 - 200 Volts

$P_D$  : 0.5 Watt

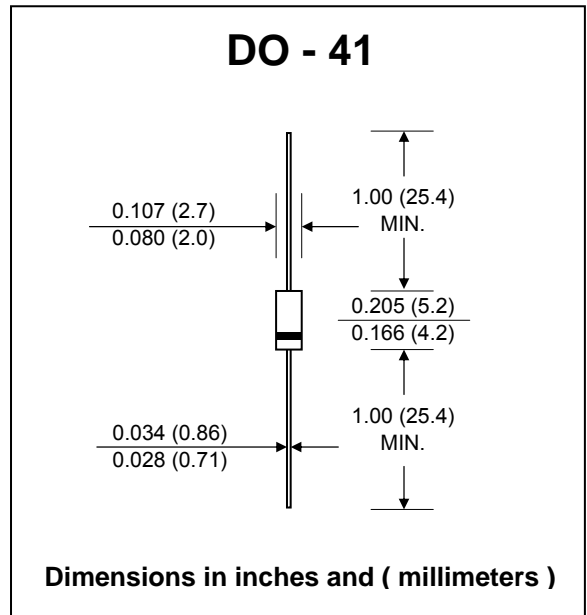
## FEATURES :

- \* Complete voltage range 43 to 200 Volts
- \* High peak reverse power dissipation
- \* High reliability
- \* Low leakage current
- \*  $\pm 5\%$  tolerance
- \* Pb / RoHS Free

## MECHANICAL DATA

- \* Case : DO-41 Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.339 gram

# SILICON ZENER DIODES



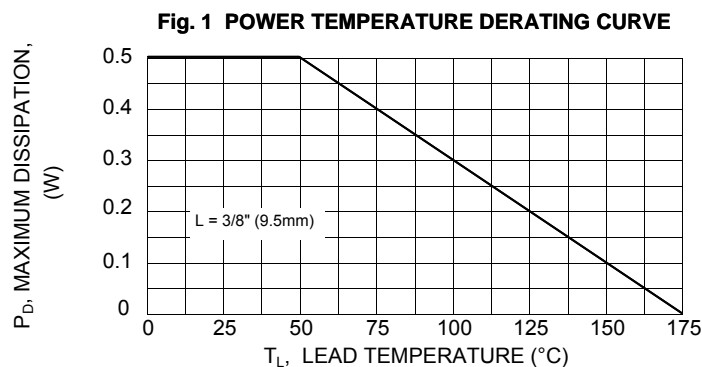
## MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at $T_L = 50\text{ °C}$ (Note1)	$P_D$	0.5	Watt
Maximum Forward Voltage at $I_F = 200\text{ mA}$	$V_F$	1.2	Volts
Maximum Thermal Resistance Junction to Ambient Air (Note2)	$R_{\theta JA}$	170	K / W
Junction Temperature Range	$T_J$	- 55 to + 175	°C
Storage Temperature Range	$T_{STG}$	- 55 to + 175	°C

### Notes :

- (1)  $T_L$  = Lead temperature at 3/8 " (9.5mm) from body
- (2) Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.



## ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified

Type No.	Nominal Zener Voltage	Test Current	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current	Maximum Surge Current
	$V_Z @ I_{ZT}$	$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_{ZK}$	$I_R @ V_R$		$I_{ZM}$	$I_{RM}^{(2)}$
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)	(mApk)
Z043A	43	2.75	70	1500	0.25	5.0	32	11	52
Z047A	47	2.40	80	1500	0.25	5.0	35	9.6	47
Z051A	51	2.23	95	1500	0.25	5.0	38	8.9	44
Z056A	56	2.00	110	2000	0.25	5.0	42	8.0	40
Z062A	62	1.83	125	2000	0.25	5.0	47	7.3	36
Z068A	68	1.65	150	2000	0.25	5.0	52	6.6	33
Z075A	75	1.50	175	2000	0.25	5.0	57	6.0	30
Z082A	82	1.37	200	3000	0.25	5.0	62	5.5	27
Z091A	91	1.25	250	3000	0.25	5.0	73	5.0	24
Z0100A	100	1.12	350	3000	0.25	5.0	76	4.5	22
Z0110A	110	1.00	450	4000	0.25	5.0	83	4.1	20
Z0120A	120	0.95	550	4500	0.25	5.0	91	3.8	18
Z0130A	130	0.88	700	5000	0.25	5.0	98	3.5	17
Z0150A	150	0.75	1000	6000	0.25	5.0	114	3.0	15
Z0160A	160	0.70	1100	6500	0.25	5.0	121	2.8	14
Z0180A	180	0.62	1400	7000	0.25	5.0	136	2.5	12.5
Z0190A	190	0.57	1400	7500	0.25	5.0	144	2.3	11.8
Z0200A	200	0.55	1900	9990	0.25	5.0	152	2.2	11.2

**Note :**

- (1) The type number listed have a standard tolerance on the nominal zener voltage of ± 5%.  
 Add suffix "B" for ± 2% tolerance.No suffix for ±10% tolerance