# **Zener Diode**





#### **Features**

- · Silicon epitaxial planar diode
- · High speed switching diode
- 500mW power dissipation
- · Reverse Voltage: 2.4 to 75 Volts

## **Application**

Voltage stabilization

## **Absolute Maximum Ratings**

T<sub>J</sub> = 25°C

Characteristics	Test Conditions	Symbol	Values	Unit
Power Dissipation	I = 4mm TL ≤ 25°C	Pv	500	Mw
Z-current		lz	Pv/Vz	MA
Junction Temperature		TJ	175	°C
Storage Temperature Range		Тѕтс	-55 to +200	°C

### Max. Thermal Resistance

T<sub>J</sub> = 25°C

Characteristics	Test Conditions	Symbol	Values	Unit
Junction Ambient	I = 4mm TL = Constant	RthJA	350	K/W

### **Electrical Characteristics**

T<sub>J</sub> = 25°C

Characteristics	Test Conditions	Symbol	Min.	Тур.	Max.	Unit
Forward Voltage	IF = 200mA	VF	-	-	1.5	V

Operating and Storage Temperature: -55°C to +200°C

		nal Zener Itage	Test Current		Impedance 2)	lzĸ	Leakane		Max. Reverse Leakage Current		Max. Surge	Max. Regulation Current Izм
Part Number		@ Izt	Izт	<b>Z</b> zт @ <b>I</b> zт	<b>Z</b> zт @ <b>I</b> zт		lR	@ <b>V</b> R	Current			
	Min.	Max.	mA	Ω	Ω	mA	μA	Volts	mA	mA		
BZV55C30	28	32	5	80	220	1	0.1	22	+0.091	13		
BZV55C39	37	41	2.5	90	500	0.5	0.1	30	+0.094	10		
BZV55C62	58	66	2.5	150	1000	0.5	0.1	47	+0.096	6.4		
BZV55C75	70	80	2.5	250	1500	0.5	0.1	56	+0.096	5.3		
BZV55C2V4	2.28	2.56	5	85	600	1	50	1	-0.085	155		
BZV55C2V7	2.5	2.9	5	85	600	1	10	1	-0.08	135		

#### Note:

- 1. Normal Tolerance ±5%.
- 2. "BZV..."Indicates MINI MELF Package.

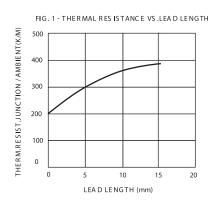
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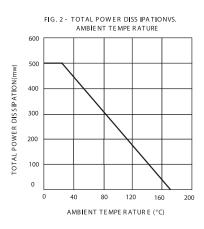


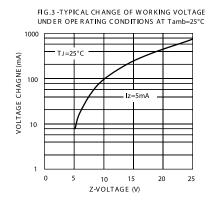
# **Zener Diode**

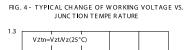


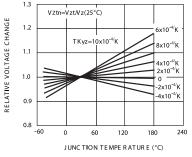
## **Ratings and Characteristic Curves**

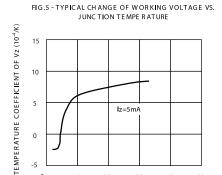








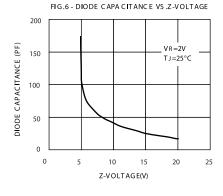


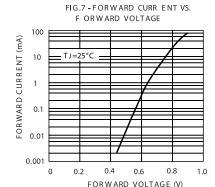


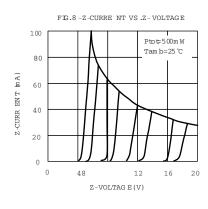
30

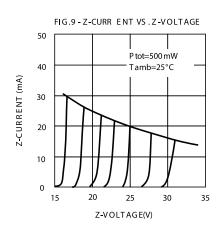
Z-VOLTAGE(V)

10



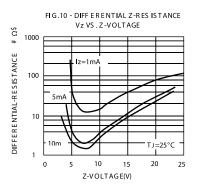


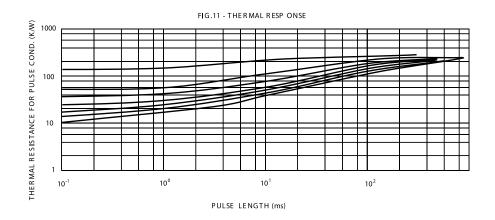




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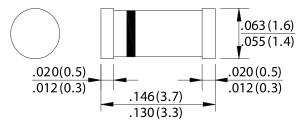






## **Dimensions:**

DL - 35



Dimensions: Inches (Millimetres)

### **Part Number Table**

Description	Part Number
Diode, Zener, 0.5W 30V, DL-35	BZV55C30
Diode, Zener, 0.5W 39V, DL-35	BZV55C39
Diode, Zener, 0.5W 62V, DL-35	BZV55C62
Diode, Zener, 0.5W 75V, DL-35	BZV55C75
Diode, Zener, 0.5W 2.4V, DL-35	BZV55C2V4
Diode, Zener, 0.5W 2.7V, DL-35	BZV55C2V7

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