

## Silicon Bidirectional Diode

**VOLTAGE RANGE: 30V**  
**PEAK PULSE POWER: 350mW**

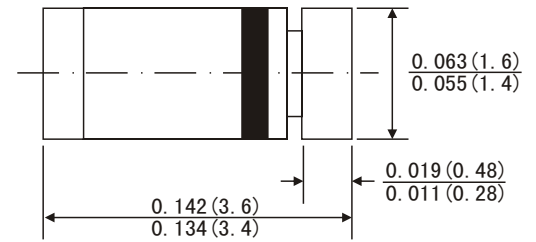
### Features

- Hermetically Sealed Glass
- Low Reverse Leakage
- High Stability and High Reliability
- High Forward Surge Capability

### Mechanical Data

- Case: LL-34 Glass Case
- Mounting Position: Any

### MELF(LL34)



## MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

Parameters	Symbol	Value	Unit
Power Dissipation	Pd	350	mW
Storage temperature	Ts	-40-+150	°C
Operating Junction Temperature	Tj	100	°C

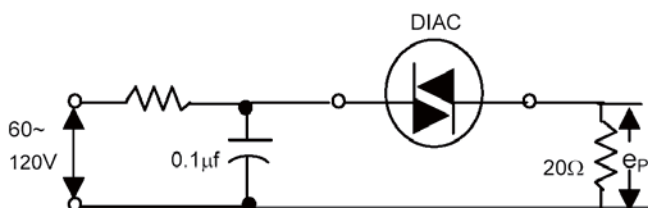
**Notes:** The glass passivated, three-layer, two terminal, axial lead, hermetically sealed diacs are designed specifically for triggering thyristors. They demonstrate low breakover current at breakover voltage as they withstand peak pulse current. The breakover symmetry is within four bolts with a typical breakover voltage of 32 volts. These diacs are intended for use in thyristor phase control, circuits for lamp-dimming, universal-motor speed controls, and heat controls.

## Electrical Specification (TA=25°C unless otherwise specified)

Test	Symbol	Min	Typ.	Max.	Unit
Breakover Voltage	VBO1&VBO2	28	32.0	36	V
Breakover Currents	IBO1&IBO2	-	-	200	uA
Breakover Voltage Symmetry	VBO1 - VBO2	-	-	3.8	V
Dynamic Breakover Voltage $\Delta I=[IBO \text{ to } IF = 10mA]$	$ \pm \Delta V $	5	-	-	V
Thermal Impedance Junction To Ambient	R $\Phi$ JA	-	-	60	°C/W

### MAXIMUM RATINGS AT 50°C Ambient

- Peak Current(10u sec duration, 120 cycle repetition rate) Ip  $\pm$  2Amperes Max.
  - Peak output voltage ep  $3 \pm$  volts Max\*
- \*CIRCUIT FOR PEAK OUTPUT VOLTAGE TEST



Characteristics at T<sub>amb</sub> = 25°C

### TYPICAL DIAC-TRIAC

#### FULL-WAVE PHASE CONTROL CIRCUIT

