



high voltage protection diode designed for. . .

- High Impedance Diode Switching
- High Dynamic Range Log Amps
- High Isolation Protection Circuits

Performance Curves VRMA
See Section 4

BENEFITS

- Offers High Voltage Protection
- Broad Current Range

ABSOLUTE MAXIMUM RATINGS (25°C)

Anode to Cathode Voltage

JR135V	135V
JR170V	170V
JR200V	200V
JR220V	220V
JR240V	240V

Forward Diode Current I_F20mA

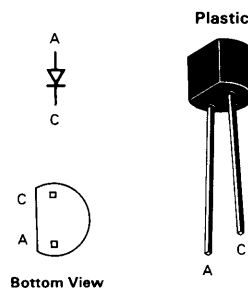
Reverse Diode Current I_R50mA

Power Dissipation P_D360mW
(Derate 3.27mW/°C)

Storage Temperature T_{STG}-55°C to 150°C

Operating Temperature T_{OP}-55°C to 135°C

TO-92 (MODIFIED)
See Section 6



Bottom View

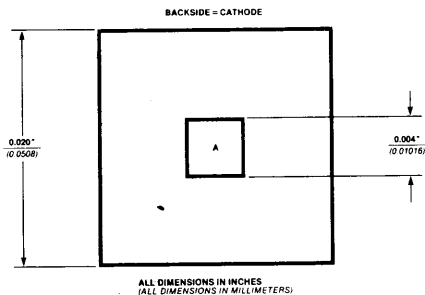
ELECTRICAL CHARACTERISTICS (25°C)

Characteristic				Min	Typ	Max	Unit	Test Conditions
1	POV	Peak Operating Voltage ¹	JR135V	135			V	$I_F = 1\text{mA}$
			JR170V	170				
			JR200V	200				
			JR220V	220				
			JR240V	240				
2	I_F^1	Forward Current		200			μA	$V_F = 2\text{V}$
	I_F^2			200		770		$V_F = 100\text{V}$
3	V_L	Limiting Current				0.9	V	$I = 0.8 I_F^1$
4	Z_D	Dynamic Impedance			2		M Ω	$V_F = 25\text{V}$
5	$\Delta I_F / \Delta T$	I_F Temp Coefficient			+0.6		% / °C	$V_F = 2-100\text{V}$
								$T_A = -20 \text{ to } +85^\circ\text{C}$

NOTE:

1. Pulse test duration 2 ms.

VRMA



high voltage protection diode designed for . . .

- Limiting Current
- Voltage Protection
- Voltage Decoupling

BENEFITS

- Series element
- Two terminals
- Simple to use
- High breakdown voltage (JR240V — 240 volts)
- Low Cost

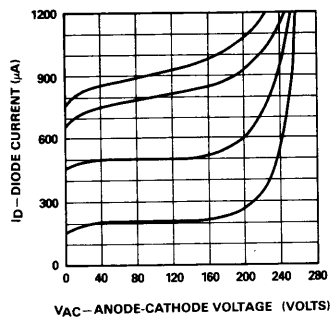
TYPE
Single

PACKAGE
TO-92

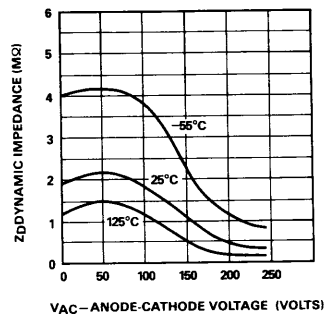
PRINCIPAL DEVICES
JR135V, JR170V, JR200V
JR220V, JR240V

PERFORMANCE CURVES (25°C unless otherwise specified)

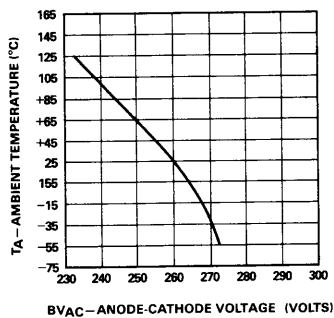
Output Characteristic



Dynamic Impedance Vs.
Anode-Cathode Voltage at
Temperature



Breakdown Voltage Vs.
Temperature



Free Air Temperature
Dissipation Derating Curve

