

### Features

- Fails short circuit when surged in excess of ratings
- Low voltage overshoot
- High repetitive surge current capability
- Low on - state voltage



TO-92

### Main Applications

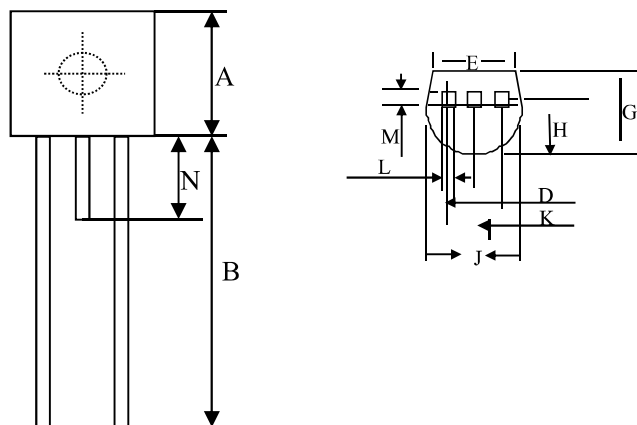
- Customer Premises Equipment (CPE)
- Modems, Line cards, DSL, ISDN, T - 1/E - 1
- Data lines and security systems
- Fax machines, Telephones etc.

### Thermal Considerations

Type Number	Symbol	Value	Units
Operating Junction Storage Temperature Range	T <sub>J, TG</sub>	-40 to + 150	°C
Storage Temperature Range	T <sub>S</sub>	-40 to + 150	°C
Thermal Resistance: Junction to Ambient	R $\theta$ JA	90	°C/W

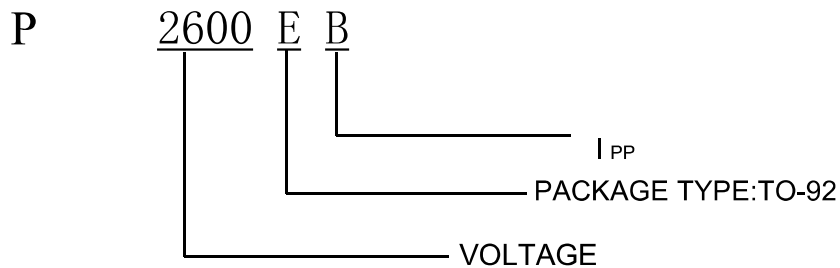
### Package Dimensions

TO-92



Dim		A	B	D	E	F	G	H	J	K	L	M	N
Millimeters (mm)	Min	4.47	12.70	2.41	3.81	1.16	3.43	2.23	4.47	2.23	0.33	0.33	-
	Max	4.98	-	2.67	-	1.37	3.68	2.44	4.73	2.44	0.48	0.43	1.52
Inches (inch)	Min	0.176	0.500	0.095	0.150	0.046	0.135	0.088	0.176	0.088	0.013	0.013	-
	Max	0.196	-	0.105	-	0.054	0.145	0.096	0.186	0.096	0.019	0.017	0.060

### Ordering Information



### Electrical Characteristics (*T<sub>Ambient</sub>=25°C unless noted otherwise*)

Part Number	V <sub>DRM</sub>	V <sub>s</sub>	I <sub>H</sub>	I <sub>s</sub>	I <sub>T</sub>	V <sub>T</sub>	C <sub>o</sub>	
	V min	V max	mA min	mA max	A max	V max	pF min	pF max
P2600EA	220	300	150	800	2.2	4	20	45

### Surge Ratings

Series	I <sub>PP</sub> 2x10μS Amps	I <sub>PP</sub> 8x20μS Amps	I <sub>PP</sub> 10x160μS Amps	I <sub>PP</sub> 10x560μS Amps	I <sub>PP</sub> 10x1000μS Amps	I <sub>TSM</sub> 50/60Hz Amps	di/dt Amps/μS
B	250	250	150	100	80	25	500

- Note: 1. Peak pulse current rating (I<sub>PP</sub>) is non - repetitive and guaranteed for the life of the product.
2. I<sub>PP</sub> ratings applicable over temperature range of - 40°C to +85°C
3. The device must initially be in thermal equilibrium with - 40°C < T<sub>J</sub> < +150°C
4. Current waveform and voltage waveform in μS.

## Typical Characteristics Curves

Fig 1. V-I Characteristics

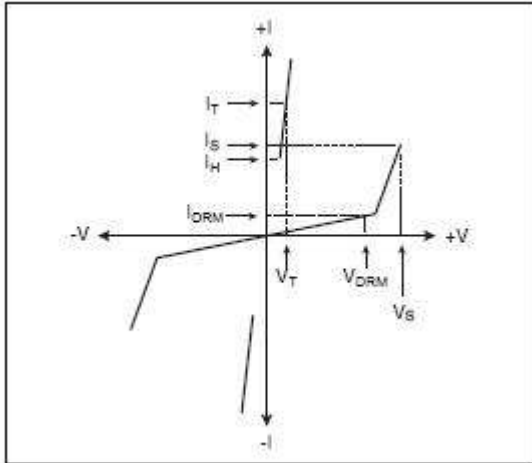


Fig 2.  $t_r \times t_d$  Pulse Wave-form

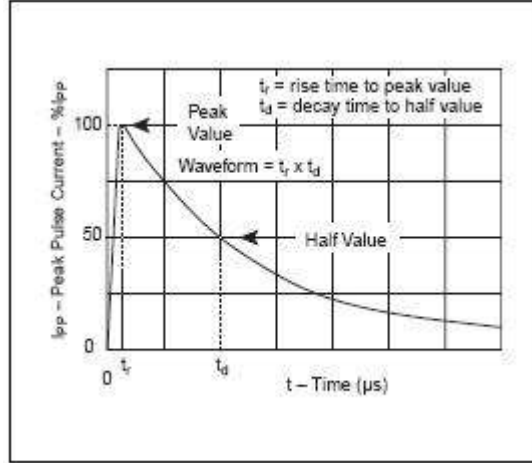


Fig 3. Normalized  $V_S$  Change versus Junction Temperature

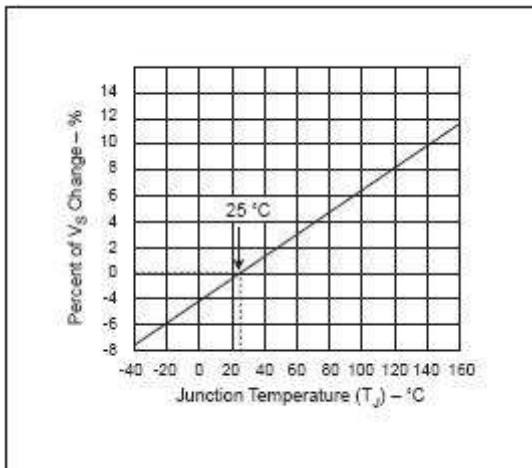
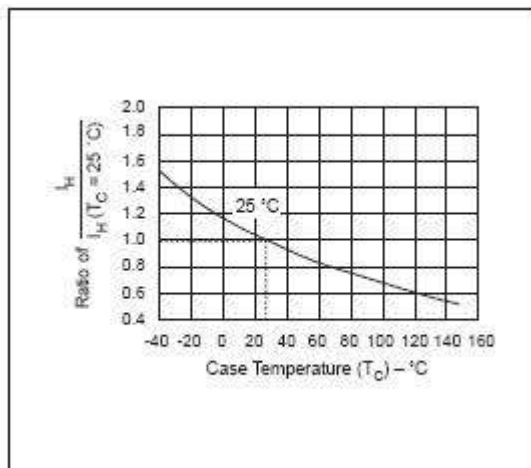


Fig 4. Normalized DC Holding Current Versus Case Temperature



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