

TECHNICAL DATA
DATASHEET 4241, Rev-

HERMETIC ULTRAFAST DIODE

Description: 3Amp, 20nS diode in hermetic package

Applications / Markets:

- Switch-mode power supply
- Data communication and telecommunications system equipment
- Hi-rel industry
- Military
- Aerospace

Features / benefits:

- Ultrafast Soft Recovery
- Low Forward Voltage Drop
- High Efficiency Switching
- High Surge Capacity
- Available In Leaded And Surface Mount Packaging
- Upscreen to JANTX, JANTXV and JANS per Mil-Prf-19500 available
- All Package Styles Are Hermetic, Non-Cavity
- Metallurgical bond

Maximum ratings $T_A=+25^{\circ}\text{C}$ unless otherwise specified

Types	PIV V(pk)	Io		Ir @ PIV μA		I_{FSM} Tp=1/120 s	Vf		Trr (3)	$R_{\theta\text{JEC}}$ L=0	$Z_{\theta\text{JX}}$	$T_{\text{STG}}, T_{\text{J}}$
		Io ₁ (1)	Io ₂ (2)	25 °C	100°C		V	A				
SXX175UF3A	175	6.0	3.0	5.0	150	A(pk)	1.0	6.0	nS	°C/W	°C/W	°C
SXX200UF3A	200	6.0	3.0	5.0	150	125	1.0	6.0	20	10	1.5	-65 to 175
SXX225UF3A	225	6.0	3.0	5.0	150	125	1.0	6.0	20	10	1.5	-65 to 175
SXX250UF3A	250	6.0	3.0	5.0	150	125	1.0	6.0	20	10	1.5	-65 to 175

XX = package style: AL: Axial Lead; SM: Surface Mount

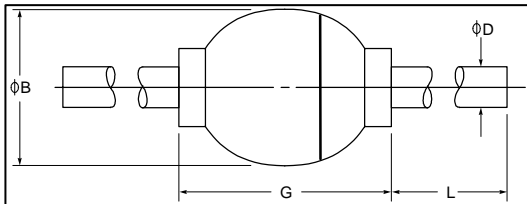
(1) $T_L=75^{\circ}\text{C}$ L=.375in. for axial lead package; $T_{\text{EC}}=T_L$ at L=0 for surface mount package

(2) $T_A=55^{\circ}\text{C}$. This rating is typical for boards where thermal resistance from mounting point to ambient is sufficiently controlled where $T_{\text{J(MAX)}}$ is not exceeded.

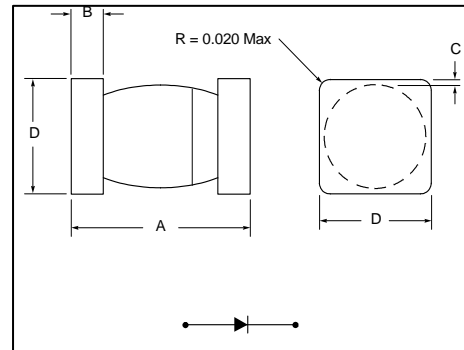
(3)Reverse recovery time conditions: $I_{\text{r}}=0.5\text{A}$ $I_{\text{r}}=1.0\text{A}$ $I_{\text{r}}=0.25\text{A}$

SENSITRON
TECHNICAL DATA
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Package Information

Axial Lead



Surface Mount



PACKAGE STYLE	DIMENSIONS - INCHES (MILLIMETERS)			
	ϕB	ϕD	G	L
304	.115/.165	.037/.042	.130/.300	.90/1.30
	2.92/4.19	.94/1.07	3.30/7.62	22.9/33.0

PACKAGE STYLE	DIMENSIONS - INCHES (MILLIMETERS)			
	A	B	C	D
MELF-B	.200/.225	.019/.028	.003 Min	.137/.148
	5.08/5.72	.48/.72	.076 Min	3.48/3.76

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