

Applications

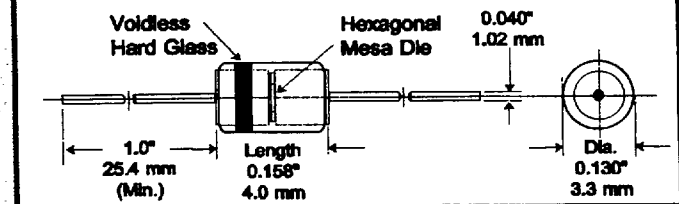
For use in hostile environments such as military and aerospace.

A fast high power, high voltage rectifier for industrial use with military reliability. These parts are at home equally in satellite or heavy industrial power supplies. *BKC can produce MIL equivalents of high reliability parts with internal source control drawings. Use HR, HRX, HRV or HRS suffixes for cost effective high reliability parts or use your own SCD.*

Features

- Six Sigma quality
- High surge capability
- Miniature package
- Humidity proof hard glass
- No thermal fatigue
- Metallurgically bonded
- Thermally matched system
- Zero solderability defects
- Sigma Bond™ plated contacts

B Body Tungsten Voidless Glass Package (nominal dimensions)



Absolute Maximum Ratings	Symbol	Value	Unit
Power Dissipation at 3/8" from the body, $T_L = 50^\circ\text{C}$	P_{tot}	5.0	Watts
Average Forward Rectified Current at $T_L = 50^\circ\text{C}$	I_{AV}	5.0	Amps
Junction & Storage Temperature Range	$T_{J\&S}$	-55 to +150	$^\circ\text{C}$
Maximum Non Repetitive Surge (8.3ms)	I_{FSM}	70	Amps
Thermal Resistance at 3/8" from the body, $T_L = 50^\circ\text{C}$	$R_{\theta JL}$	20	$^\circ\text{C/W}$

Characteristics at $T = 25^\circ\text{C}$

Type	Peak Inverse Voltage (MIN.) (PIV) Volts	Maximum Forward Voltage Drop (V_F) @ $I_F = 3\text{A}$		Maximum Reverse Leakage Current (I_R) @ Rated V_R		Maximum Reverse Recovery (NOTE 1) (t_r) nS
		25° C Volts	100° C Volts	25° C μA	100° C μA	
UES1304	200	1.25	1.15	20	500	50
UES1305	300	1.25	1.15	20	500	50
UES1306	400	1.25	1.15	20	500	50

Note 1: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, t_r @ 0.25A

Surface mount devices are available in a SQUARE ENDED hard glass MELF B package. To specify MELF, add a US suffix.

To buy high reliability parts, add the appropriate HR, HRX, HRV or HRS suffix to the above numbers.



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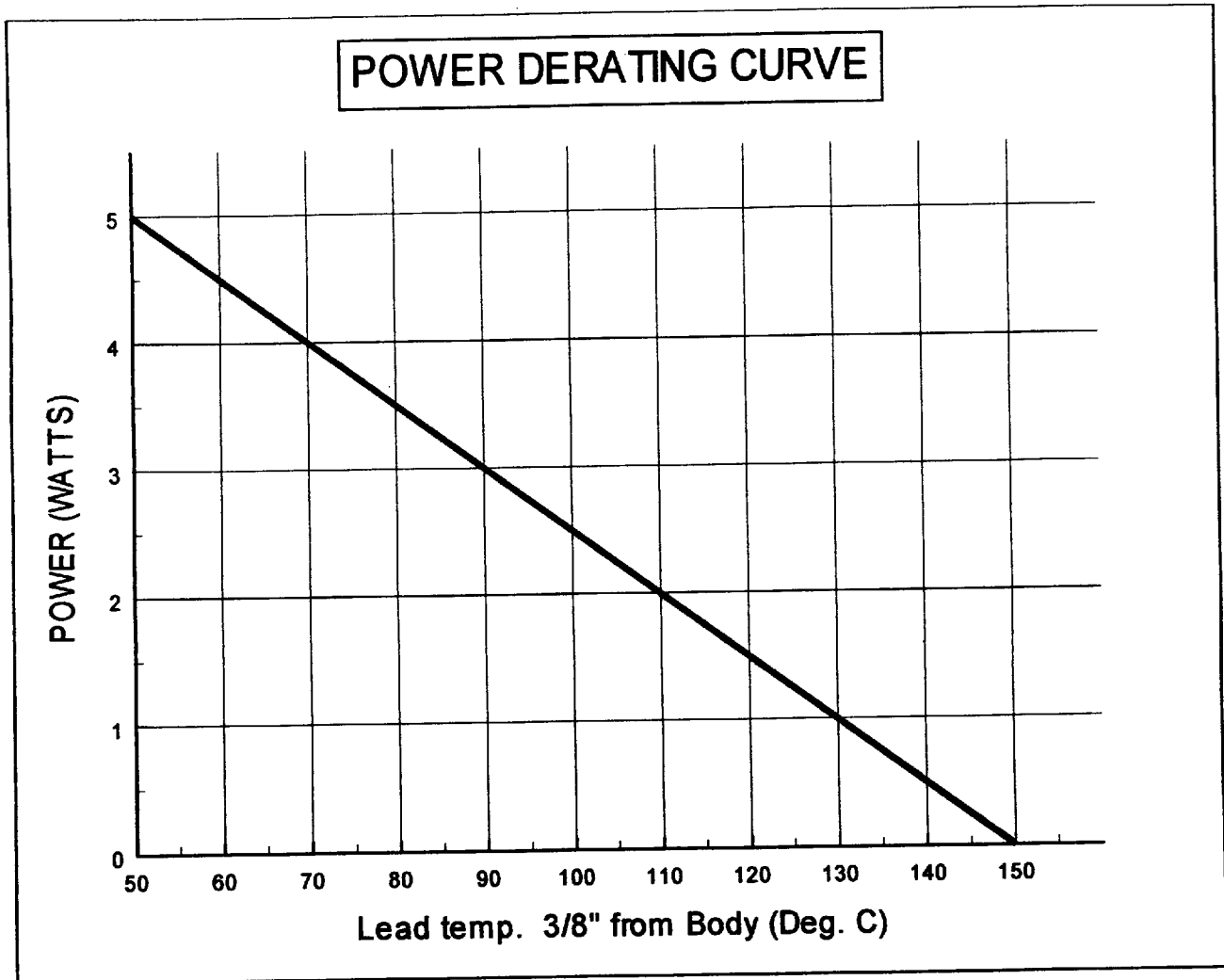
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UES1304 thru UES1306

5 Amp Fast Rectifiers



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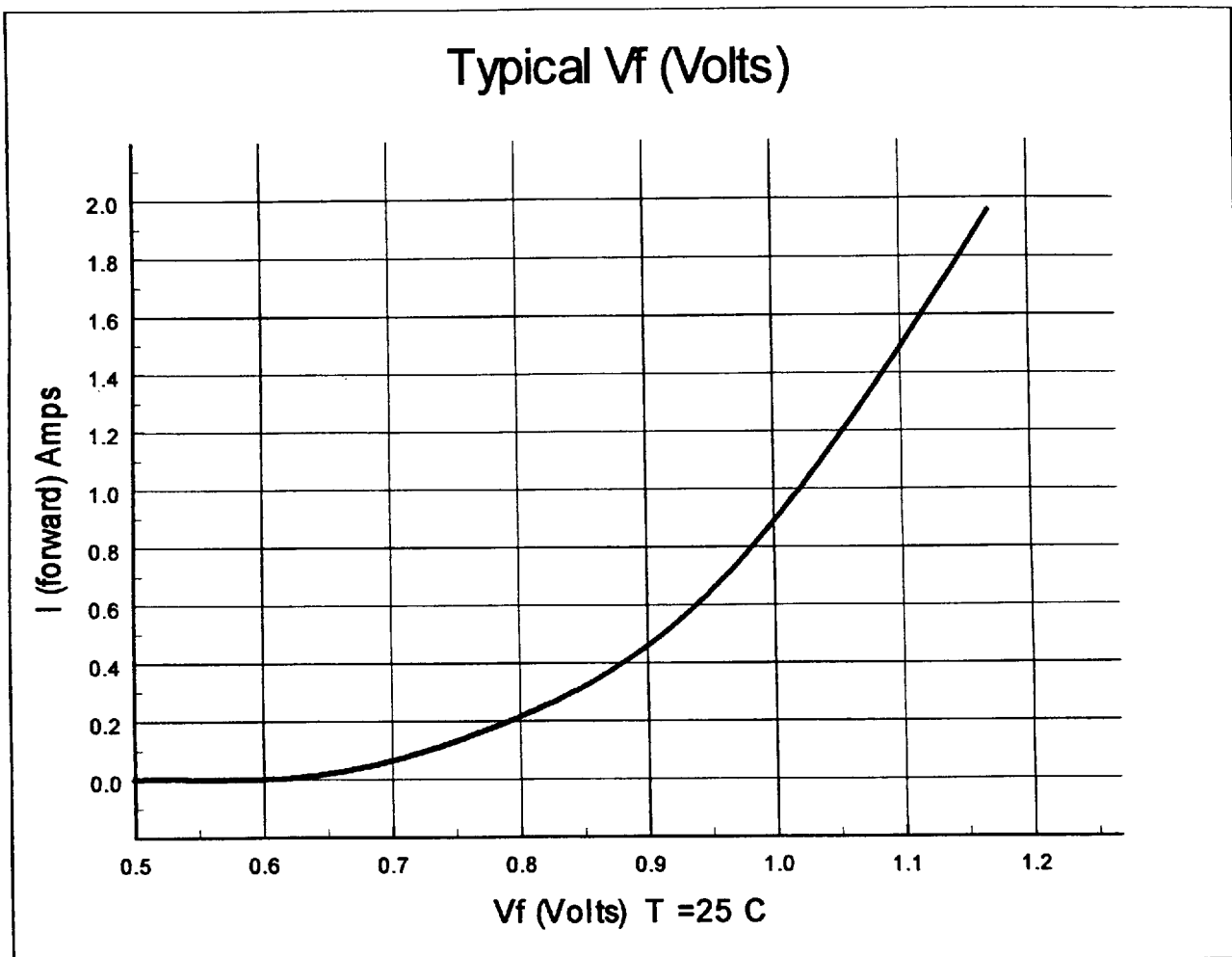
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UES1304 thru UES1306

5 Amp Fast Rectifiers



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