

Applications

Hard Glass Tungsten

For use in hostile environments such as military and aerospace.

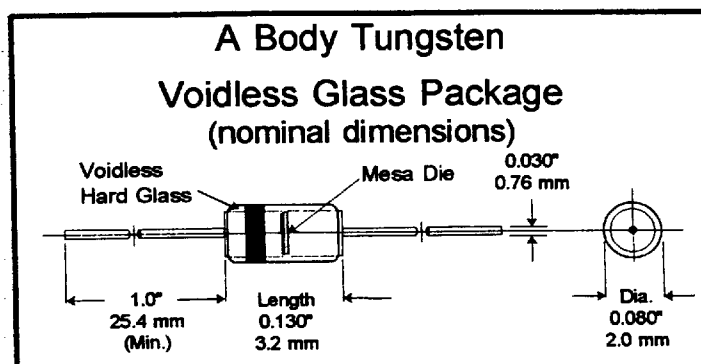
Used where speed, higher voltage and small footprint are important.

They are ideal for use in industrial, aircraft or satellite 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
- Microminiature package
- Humidity proof hard glass
- No thermal fatigue
- Metallurgically bonded
- Thermally matched system
- Zero solderability defects
- Sigma Bond™ plated contacts



Absolute Maximum Ratings	Symbol	Value	Unit
Power Dissipation at 3/8" from the body, $T_L = 50^\circ\text{C}$	P_{tot}	2.5	Watts
Average Forward Rectified Current at $T_L = 50^\circ\text{C}$	I_{AV}	2.0	Amps
Junction & Storage Temperature Range	$T_{J\&St}$	-55 to +150	$^\circ\text{C}$
Maximum Non Repetitive Surge (8.3ms)	I_{FSM}	20	Amps
Thermal Resistance at 3/8" from the body, $T_L = 50^\circ\text{C}$	$R_{\theta JL}$	38	$^\circ\text{C/W}$

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

Type	Peak Inverse Voltage (MIN.) (PIV) Volts	Maximum Average Rectified Current (I_O) Amps	Maximum Forward Voltage Drop (V_F) @ I_F @ 1A		Maximum Reverse Leakage Current (I_R) @ PIV		Maximum Surge Current (I_{FSM}) Amps	Maximum Reverse Recovery (NOTE 1) (t_r) nS
			25° C Volts	100° C Volts	25° C μA	100° C μA		
UES1104	200	2.0	1.25	1.15	10	200	20	50
UES1105	300	2.0	1.25	1.15	10	200	20	50
UES1106	400	2.0	1.25	1.15	10	200	20	50

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

Surface mount devices are available in a SQUARE ENDED hard glass MELF A 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.



BKC Semiconductors Inc.

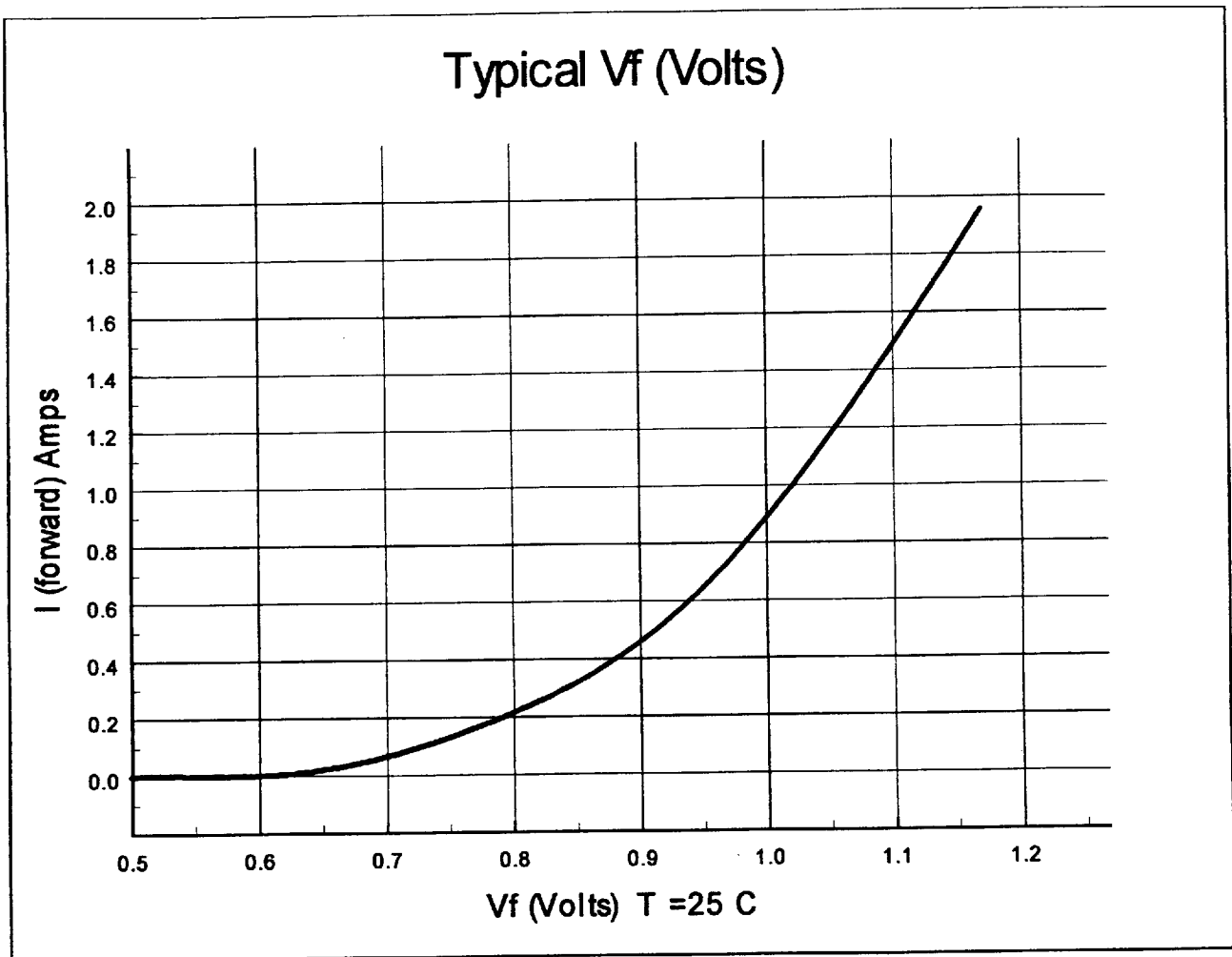
6 Lake St · Lawrence, MA · 01841 · tel: (978) 681-0392 · fax: (978) 681-9135

1179983 0000609 236

36

UES1104 thru UES1106

2.0 Amp Fast Rectifiers



BKC Semiconductors Inc.

6 Lake St · Lawrence, MA · 01841 · tel: (978) 681-0392 · fax: (978) 681-9135

1179983 0000610 T58