<u>SENSITRON</u> SEMICONDUCTOR

1N6761-1/N6761UR-1 1N6824-1/1N6824UR-1

TECHNICAL DATA DATASHEET 4244, Rev-

SCHOTTKY FAST SWITCHING DIODES

Sensitron's Power Semiconductor Products have been used in space, military and high-rel applications for more than 30 years. Our 100V Schottky fast switching diodes, 1N6761-1/UR-1 & 1N6824-1/UR-1, are available in both axial and melf packaging. We also supply 100V Schottky die products.

Applications / Markets:

- ▼ Switching power supply
- ▼ Converters
- ▼Free-Wheeling Diodes
- ▼Polarity protection diode
- ▼ High-rel industrial
- ▼ Military
- ▼Aerospace
- ▼ Space/satellites

Features / Benefits:

- ▼Ultra-low reverse leakage current
- ▼Soft Reverse Recovery at Low and High Temperature
- ▼Very Low Forward Voltage Drop
- ▼Low Power Loss, High Efficiency
- ▼High Surge Capacity
- ▼Guaranteed Reverse Avalanche Characteristics
- ▼Outperforms 100 Volt Ultra Fast Rectifiers
- ▼Hermetic, non-cavity glass package
- Metallurgically bonded
- ▼ Screening to TX, TXV, S levels available

All ratings are at $T_A = 25^{\circ}C$ unless otherwise specified.

RATING		SYMBOL	CONDITIONS	MIN	MAX	UNIT
Peak Inverse Voltage		VRWM	←	-	100	Vdc
Average DC Output Current (I _o)		lo	\uparrow	-	1.0	Amps
Peak Single Cycle Surge Current (I _{fsm})		IFSM	t _p = 8.3 ms Half Sine Wave,	-	25	Amps(pk)
CHARACTERISTIC			CONDITIONS	MIN	MAX	UNIT
Maximum Forward Voltage	6761	Vf	I_F = 0.1A (300 µsec pulse, duty cycle < 2%)	-	0.38	Volts
Maximum Forward Voltage	6824 6761	Vf	I_F = 1.0A (300 µsec pulse, duty cycle < 2%)	-	0.49 0.69	Volts
Maximum Instantaneous Reverse Current At Rated VRWM	6824 6761	lr	T _A = 25° C VR=100V T _A = 100° C	-	10 100	μAmps
Junction Capacitance (C _J)	6824 6761		V _R =5 Vdc	-	40 70	pF

• 221 West Industry Court 🗉 Deer Park, NY 11729 🗉 (631) 586 7600 FAX (631) 242 9798 •

World Wide Web Site - http://www.sensitron.com • E-mail Address - sales@sensitron.com •

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PACKAGE DIMENSIONS

Axial







SCHOTTKY BARRIER

PACKAGE	DIMENSIONS - INCHES (MILLIMETERS)				
STYLE	φB	φD	G	L	
	.028/.034	.08/.107	.160/.205	1.00/1.30	
DO-41	0.71/0.86	2.03/2.72	4.06/5.21	25.4/33.02	

CHOTIKI	DANNEN	
PACKAGE	DIMENSIONS -	- INCHE

	DIMENSION			/
STYLE	А	В	С	D
	.189/.205	.016/.022	0.001 Min	.094/.105
DO-213AB	4.80/5.21	0.41/0.56	0.03 Min	2.39/2.67

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