

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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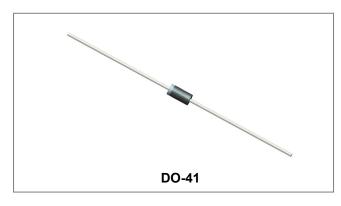








UF4001G THRU UF4007G ULTRA FAST RECITIFIERS



Features

- · Super fast switching for high efficiency
- Low leakage current
- High forward surge capability
- Solder dip 260 ° C, 40 s
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC
- Glass Passivated Die Construction
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: JEDEC DO-41 molded plastic body
 Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Mounting Position: AnyWeight: 0.33 grams

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

	SYMBOLS	UF 4001G	UF 4002G	UF 4003G	UF 4004G	UF 4005G	UF 4006G	UF 4007G	UNIS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current 0.375"(9.5mm) lead length at T_A =55 $^{\circ}$ C	I _(AV)	1.0				Α			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30.0			Α				
Maximum instantaneous forward voltage at 1.0A	V _F	1.0 1.70				٧			
Maximum DC reverse current T_A =25 $^{\circ}$ C at rated DC blocking voltage T_A =100 $^{\circ}$ C	I _R	5.0 50.0			μА				
Maximum reverse recovery time (Note 1)	trr	50 75		75		ns			
Typical junction capacitance (Note 2)	Сл	15.0			pF				
Typical thermal resistance (Note 3)	R _{CJA}	50.0			°C/W				
Operating junction and storage temperature range	$T_{J,}T_{STG}$	-65 to +150			$^{\circ}$				

- Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A. Irr=0.25A
 - 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 - 3. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B mounted.
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Ratings and Characteristics Curves

FIG. 1- FORWARD CURRENT DERATING CURVE

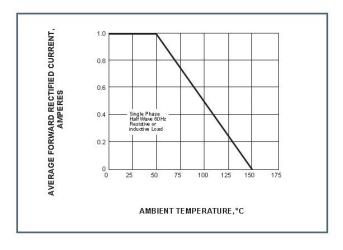


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

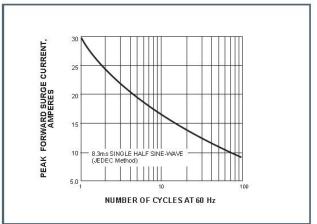


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

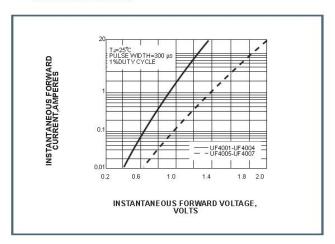
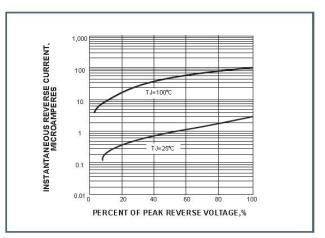


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

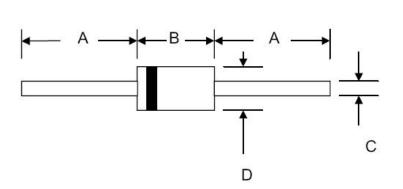








Mechanical Dimensions DO-41



CYMPOL	Millim	neters	Inches			
SYMBOL	Min.	Min. Max.		Max.		
А	25.4	-	1.000	-		
В	4.06	5.21	0.160	0.205		
С	0.71	0.864	0.028	0.034		
D	2.00	2.72	0.079	0.107		

Ordering Information

Device	Package	Shipping
UF4001G		
THRU	DO-41 (Pb-Free)	5000pcs /Tape
UF4007G		

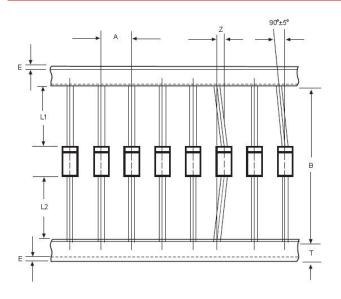
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



UF4001G = Part Name

Carrier Tape Specification DO-41



SYMBOL	Millimeters			
STWIBOL	Min.	Max.		
А	4.50	5.50		
В	50.9	53.9		
Z	-	1.20		
Т	5.60	6.40		
E	-	0.80		
IL1-L2I	-	1.0		

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