

FEATURES

| Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound | Ultra Fast switching for high efficiency



MECHANICAL DATA

APPROVALS

Case : Molded plastic body	RoHS	Compliance with 2011/65/EU
Polarity: Band denotes cathode	HF	Compliance with IEC61249-2-21:2003
Mounting Position : Any		

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25$ °C)

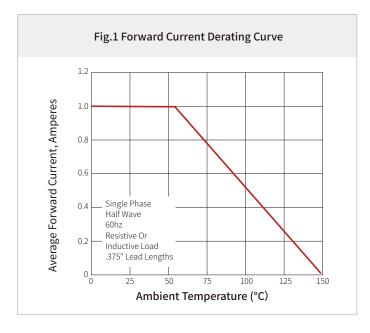
Parameter		Symbol	UF4001	UF4002	UF4003	UF4004	UF4005	UF4006	UF4007	Unit
Marking			UF4001	UF4002	UF4003	UF4004	UF4005	UF4006	UF4007	
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	
Maximum Average Forward Current 0.375"(9.5mm) lead length at T _A =55°C		I _{F(AV)}	1							
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	30					А		
Maximum Forward Voltage at I _F =1 A		V _F	1 1.3 1.7					V		
Maximum DC reverse current at rated DC blocking voltage	T _J =25°C		10							
	T _J =100°C	I _R				500				μΑ
Typical Junction capacitance (Note 1)		C _J	17					pF		
Typical Thermal Resistance(Note 2)		$R_{\theta JA}$	60					°C/W		
Maximum Reverse Recovery Time (Note 3)		t _{rr}	50 75					ns		
Operating junction and storage temperature range		$T_{j}T_{STG}$	-55~+150						°C	

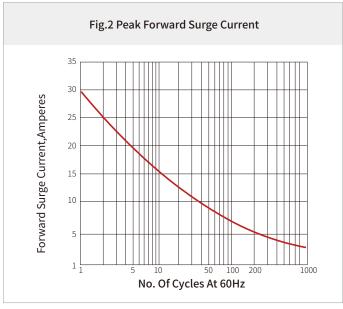
NOTES:

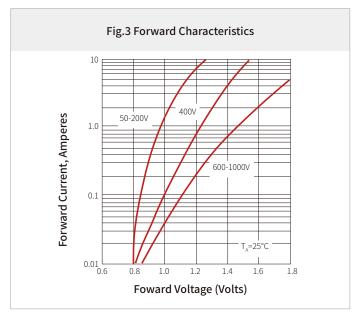
- 1. Measured at 1 MHz and applied reverse voltage of 4 VDC. 2. Thermal Resistance from Junction to Ambient and from Junction to lead length 0.375" (9.5mm) P.C.B. mounted.
- 3. Reverse Recovery Time $I_r=0.5A$, $I_R=1A$, $I_{rr}=0.25A$

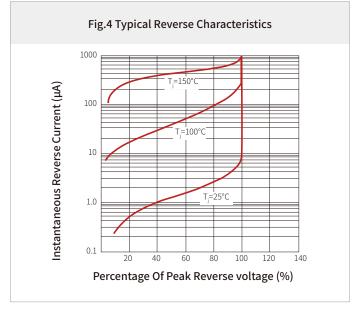


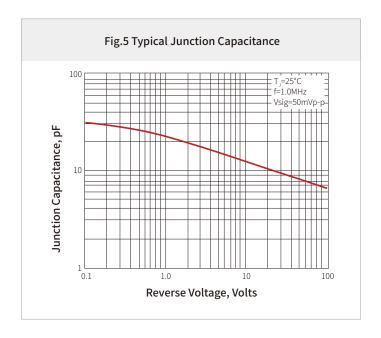
CHARACTERISTIC CURVES



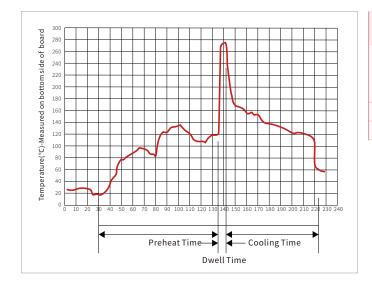








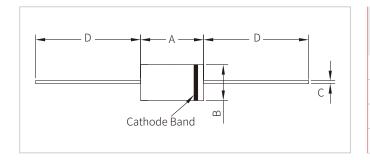
WAVE SOLDERING



	Wave Parameter	Lead–free assembly		
Pre Heat	Temperature Min	100°C		
	Temperature Max	150°C		
	Time(min to max)	60 – 180 secs		
Solderpo	t Temperature	280°C Max		
Solder Dv	vell Time	2-5 seconds		



DO-41 PACKAGE INFORMATION



Ref.	Millim	neters	Inches		
	Min.	Max.	Min.	Max.	
А	4.10	5.20	0.160	0.205	
В	2.00	2.70	0.080	0.107	
С	0.71	0.86	0.028	0.034	
D	25.40	-	1.000	-	

ORDERING INFORMATION

Part Number	Component Package	Per Carton	Description
UF4001-UF4007	DO-41	5000pcs	Вох



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