FEATURES

Low Reverse Leakage	
High Forward Surge Capability	
High Reliability	
Meet AEC-Q101 Requirements	



MECHANICAL DATA

APPROVALS

Case:DO-41 Molded Plastic	RoHS	Compliance with 2011/65/EU
Epoxy: UL 94V-0 Rate Flame Retardant	HF	Compliance with IEC61249-2-21:2003
Lead: Pure Tin Plated, Lead Free		

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

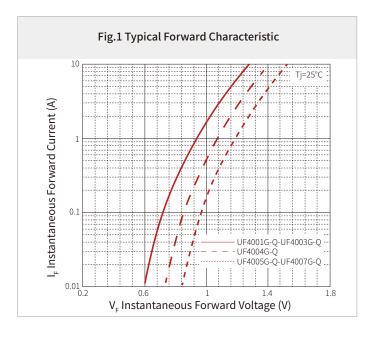
Parameter		Symbol	UF4001 G-Q	UF4002 G-Q	UF4003 G-Q	UF4004 G-Q	UF4005 G-Q	UF4006 G-Q	UF4007 G-Q	Unit
Marking			UF4001	UF4002	UF4003	UF4004	UF4005	UF4006	UF4007	
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current		I _{F(AV)}	1.0						Α	
Non-Repetitive peak forward Surge Current 8.3ms Single Half Sine-Wave		I _{FSM}	30				A			
Maximum Forward Voltage @I _F =1.0A		V _F	1.00 1.3 1.70				V			
Maximum Reverse Current @V _{DC}	T _A =25°C					5				
	T _A =125°C	- I _R				100				μΑ
MAX. Reverse Recovery Time I_F =0.5A , I_R =1.0A , I_{RR} =0.25A		T _{RR}	75				ns			
Typical Junction Capacitance V _R =4.0V,f=1MHz		CJ	17				рF			
Typical Thermal Resistance (Note 1)		R _{eja}	65				°C/W			
Operating Junction and Storage Temperature Range		$T_{j}T_{STG}$	-55~+150					°C		

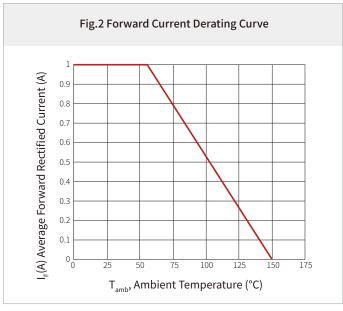
Note:

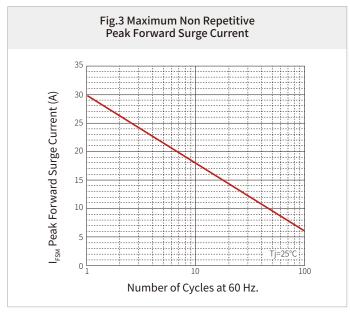
¹⁾ Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted

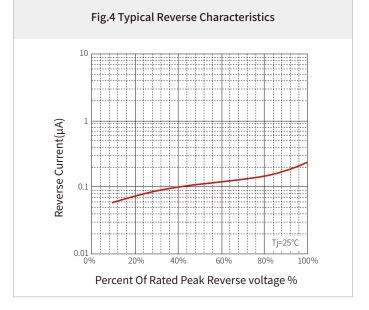


CHARACTERISTIC CURVES



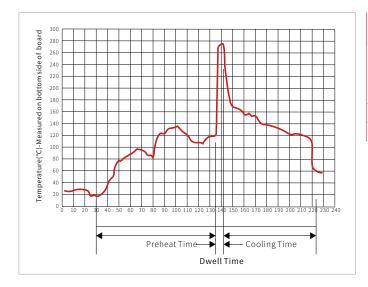






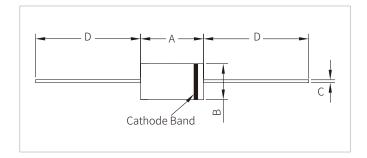


WAVE SOLDERING



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

DO-41 PACKAGE INFORMATION



Ref.	Millim	neters	Inches		
iteli.	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
UF4001G-Q~UF4007G-Q	DO-41	5000pcs	Вох



UF4001G-Q~UF4007G-Q

Fast Recovery Rectifiers

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By QR Code





Website

Machat

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