- Ultrafast recovery time for high efficiency
- Low leakage current
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition

MECHANICAL DATA





DO-204AL (DO-41)

Case: DO-204AL (DO-41) Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - green compound (halogen-free) Base P/N with prefix "H" on packing code - AEC-Q101 qualified Terminal: Matte tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 1A whisker test, with prefix "H" on packing code meet JESD 201 class 2 whisker test Weight: 0.33g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERSTICS (T _A =25°C unless otherwise noted)							
PARAMETER	SYMBOL	UF	UF	UF	UF	UF	UF
PARAIVIETER	SYMBOL	4001	4002	4003	4004	4005	4006
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560
Maximum DC blocking voltage		50	100	200	400	600	800
Maximum average forward rectified current	I _{F(AV)}	1			-		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30					
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F	1.0 1.			1.7		
Maximum reverse current @ rated VR T_J =25 $^{\circ}C$ T_J =125 $^{\circ}C$	I _R			5 150			
Maximum reverse recovery time (Note 2)	Trr	50			75		
Typical junction capacitance (Note 3)	Cj	17					
Typical thermal resistance	R _{θJL} R _{θJA}	15 60					
Operating junction temperature range	TJ	- 55 to +150					
Storage temperature range	T _{STG}	- 55 to +150					
	-	-					

Note 1: Pulse test with PW=300µs, 1% duty cycle

Note 2: Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

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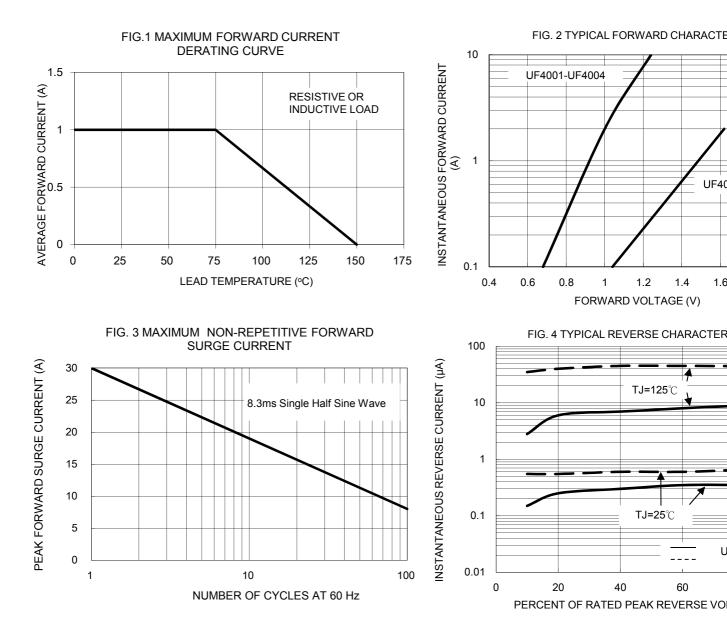
(Note 1)	R1	ounix o	DO-41	5000 / 13" Pape
	B0		DO-41	1000 / Bul

Note 1: "x" defines voltage from 50V (UF4001) to 1000V (UF4007)

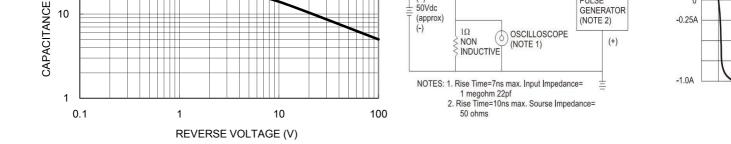
EXAMPLE						
PREFERRED P/N	PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	D DES	
		QUALIFIED		CODE		
UF4007 A0	UF4007		A0			
UF4007 A0G	UF4007		A0	G	Gree	
UF4007HA0	UF4007	Н	A0		AEC-0	

RATINGS AND CHARACTERISTICS CURVES

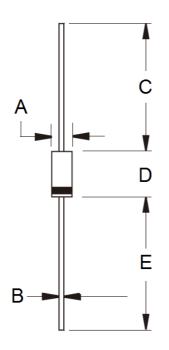
(TA=25°C unless otherwise noted)



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PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
	Min	Max	Min	Max	
А	2.00	2.70	0.079	0.106	
В	0.71	0.86	0.028	0.034	
С	25.40	-	1.000	-	
D	4.20	5.20	0.165	0.205	
E	25.40	-	1.000	-	

MARKING DIAGRAM



P/N =	Specific Device Code
G =	Green Compound
YWW =	Date Code
F =	Factory Code

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