



GLASS PASSIVATED JUNCTION ULTRAFAST RECOVERY RECTIFIER

VOLTAGE50 to 1000 VoltCURRENT1.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MIL-S-19500/228.
- · Ultra Fast recovery for high efficiency.
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

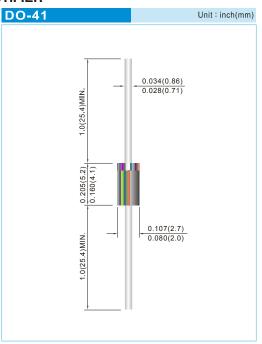
Case: Molded plastic, DO-41

Terminals: Axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Band denotes cathode

Mounting Position: Any

Weight: 0.0118 ounce, 0.336 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	UF100G	UF101G	UF102G	UF104G	UF106G	UF108G	UF1010G	UNITS
Maximum Recurrent Peak Reverse Voltage		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 Current .375"(9.5mm) lead length at TA=55°C	I F(AV)	1.0						А	
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load(JEDEC method)	I _{FSM}	30						А	
Maximum Forward Voltage at 1.0A	V _F		1.0		1.3		1.7		V
Maximum DC Reverse Current at Rated TJ=25°C DC Blocking Voltage TJ=125°C	I I				1.0 150				μА
Typical Junction Capacitance (Note 1)	C	17					pF		
Typical Thermal Resistance (Note 2)	$R_{_{\theta JA}}$	60					°C / W		
Maximum Reverse Recovery Time (Note 3)	t rr	50			100			ns	
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150				°C			

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 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 $I_F \text{=-}.5 \text{A} \ , I_R \text{=-}1 \text{A} \ , \ I_{rr} \text{=-}.25 \text{A}$





RATING AND CHARACTERISTIC CURVES

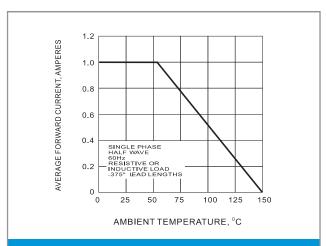


Fig.1 FORWARD CURRENT DERATING CURVE

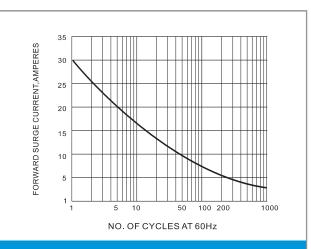


Fig.2 PEAK FORWARD SURGE CURRENT

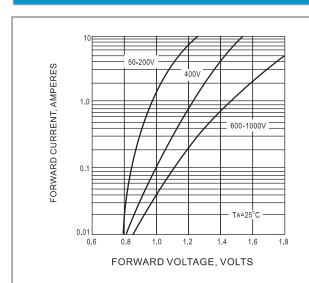


Fig.3 FORWARD CHARACTERISTICS

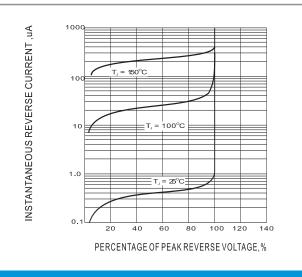
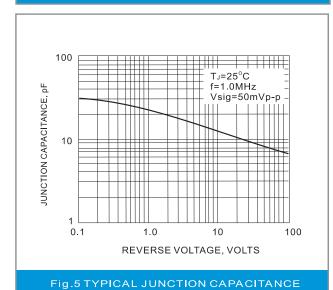


Fig.4-TYPICAL REVERSE CHARACTERISTIC







Part No_packing code_Version

UF100G_AY_00001 UF100G_AY_10001 UF100G_B0_00001 UF100G_B0_10001 UF100G_R2_00001 UF100G_R2_10001

For example:



Packing Code XX					Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	Т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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