



GLASS PASSIVATED JUNCTION ULTRAFAST RECOVERY RECTIFIERS

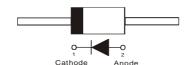
VOLTAGE 50 to 1000 Volt CURRENT 1.5 Ampere

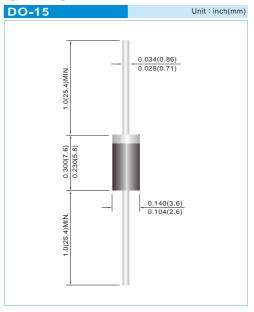
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Ultra fast recovery for high efficiency.
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: Molded plastic, DO-15
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.014 ounce, 0.397 gram





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

PARAMETER	SYMBOL	UF150G	UF151G	UF152G	UF154G	UF156G	UF158G	UF1510G	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	٧
Maximum Average Forward Current 0.375"(9.5mm) lead length at T_A =55°C	I _{F(AV)}	1.5					Α		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50						А	
Maximum Forward Voltage at 1.5A		1 1.3 1.7				>			
Maximum DC Reverse Current at Rated DC Blocking T_J =25°C Voltage T_J =125°C	I _R	1 150					μА		
Typical Junction Capacitance (Note 1)	C	25			pF				
Typical Thermal Resistance (Note 2)	R _{eJA}	50				°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 VDC.
- 2. Thermal Resistance from Junction to Ambient.
- 3. Reverse Recovery Time $I_F \! = \! 0.5 A \;, I_R \! = \! 1A \;, \; I_{rr} \! = \! 0.25 A$

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RATING AND CHARACTERISTIC CURVES

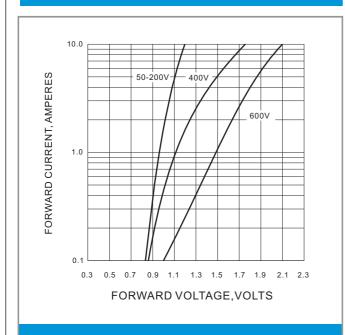


Fig.1 FORWARD CHARACTERISTICS

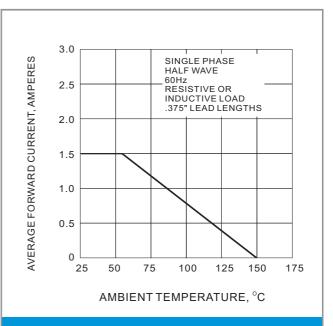


Fig.2 FORWARD CURRENT DERATING CURVE

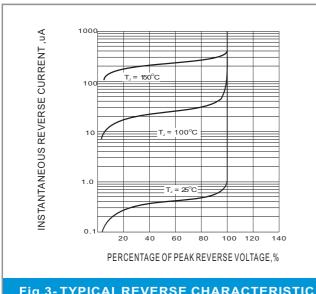


Fig.3-TYPICAL REVERSE CHARACTERISTIC

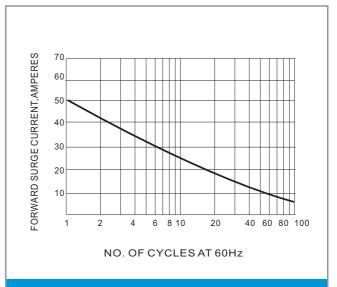


Fig.4 PEAK FORWARD SURGE CURRENT

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Part No_packing code_Version

UF150G_AY_00001

UF150G_AY_10001

UF150G_B0_00001

UF150G_B0_10001

UF150G_R2_00001

UF150G_R2_10001

For example:



Packing Code XX				Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1st 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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