



ULTRAFAST RECOVERY RECTIFIERS

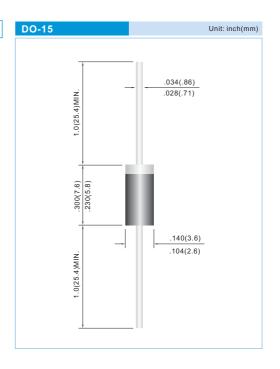
VOLTAGE 50 to 1000 Volts CURRENT 1.5 Amperes

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 directives

MECHANICALDATA

- Case: Molded plastic, DO-15
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- · Polarity: Band denotes cathode
- Mounting Position: Any
- · 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	UF150	UF151	UF152	UF154	UF156	UF158	UF1510	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward Current .375"(9.5mm) lead length at $T_{\rm A}$ =55°C	I _{F(AV)}	1.5							А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	50							А
Maximum Forward Voltage at 1.5A	V _F	1.0 1.1			1.7			V	
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =100°C	I _R	10.0 500							μА
Typical Junction capacitance (Note 1)	CJ	25							pF
Typical Thermal Resistance(Note 2)	R _{eJA}	50							°C /
Maximum Reverse Recovery Time (Note 3)	t _{rr}	50			75		ns		
Operating Junction and Storage Temperature Range	TJ,TSTG	-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.
- 3. Reverse Recovery Time $I_F = .5 \mbox{A}$, $I_R = 1 \mbox{A}$, $I_{rr} = .25 \mbox{A}$

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RATING AND CHARACTERISTIC CURVES

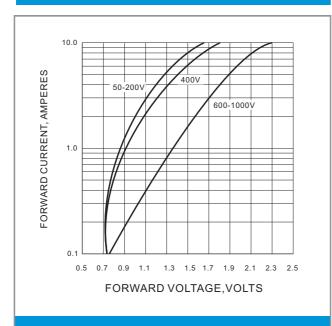


Fig.1 FORWARD CHARACTERISTICS

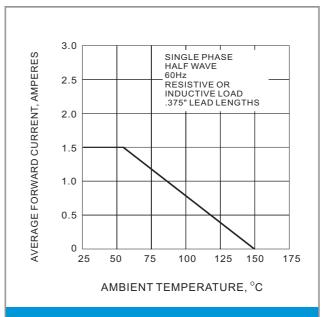


Fig.2 FORWARD CURRENT DERATING CURVE

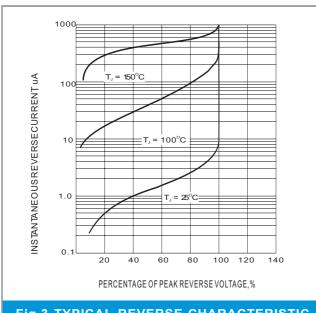


Fig.3-TYPICAL REVERSE CHARACTERISTIC

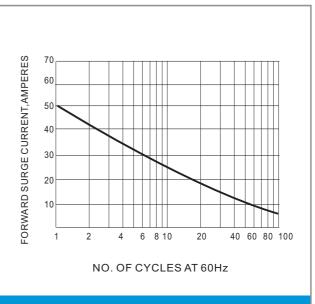


Fig.4 PEAK FORWARD SURGE CURRENT

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Part No_packing code_Version

UF150_AY_00001

UF150_AY_10001

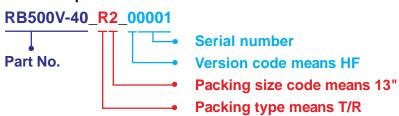
UF150_B0_00001

UF150_B0_10001

UF150_R2_00001

UF150_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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