



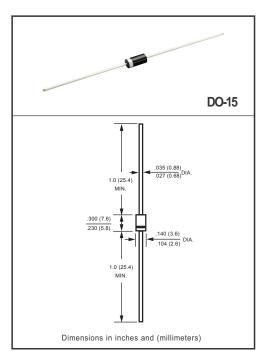
GLASS PASSIVATED SUPER FAST RECTIFIER VOLTAGE RANGE 50 to 200 Volts CURRENT 2.0 Ampere

FEA TURES

- * Glass passivated device
- * For surface mounted applications
- * Ultrafast recovery times dor high efficiency
- * Low forward voltage, low power loss
- * Low leakage current

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.40 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.

RATINGS	SYMBOL	USF21	USF22	USF23	USF24	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	35	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	Volts
Maximum Average Forward Rectified Current at T _A = 55°C	Io	2.0				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	I _{FSM} 75				Amps
Current Squarad Time	I ² T 23.3				A2/Sec	
Typical Thermal Resistance (Note 1)	R _{θJA}	45				
Typical Thermal Resistance (Note 1)	Røjl	12				
Typical Junction Capacitance (Note 2) CJ		18				
Operating Temperature Range	TJ	150				٥C
Storage Temperature Range	T _{STG}	-55 to + 150				°C

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERIS	SYMBOL	USF21	USF22	USF23	USF24	UNITS		
Maximum Instantaneous Forward Voltage	VF	0.95						
Maximum Average Reverse Current	@T _A = 25°C		5					
at Rated DC Blocking Voltage	@T _A = 100°C	'R	350					
Maximum Reverse Recovery Time (Note	trr	20						

NOTES: 1. Thermal Resistance :At 9.5mm lead length, PCB mounted.

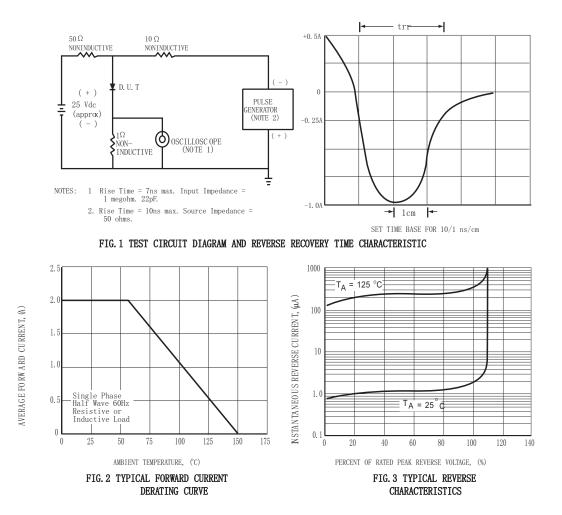
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

3. " ROHS compliant"

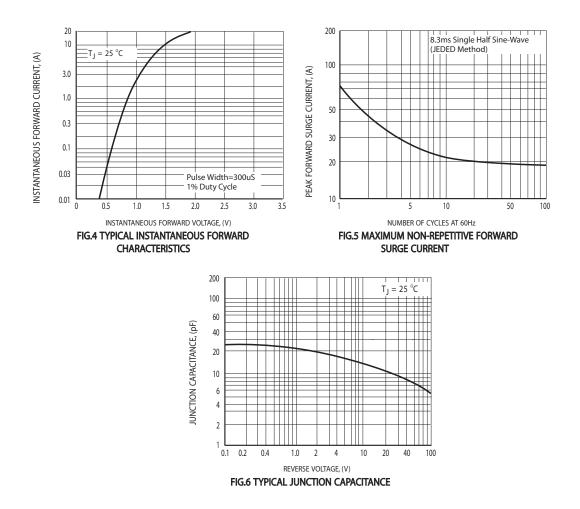
4. Test Conditions: I_F= 0.5A, I_R= -1.0A, I_{RR}= -0.25A.

2021-06 REV:B

RATING AND CHARACTERISTICS CURVES (USF21 THRU USF24)

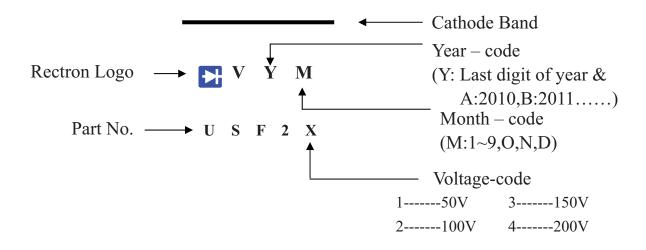


CRECTRON -





Marking Description



ERECTRON -

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKA	GE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)	
DO-1	5	-B	500	194*84*21	415*220*255	25,000	12.74	

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-15	-T	4,000	4,000	5.0	52	330	355*350*335	16,000	10.05

AMMO PACK

PACKAGE	PACKING	REEL	COMPONENT	TAPE SPACE	BOX SIZE	CARTON	CARTON	GROSS
	CODE	(EA)	SPACE(mm)	(mm)	(mm)	SIZE(mm)	(EA)	WEIGHT (Kg)
DO-15	-F	1,500	5.0	52	255*73*100	400*268*225	15,000	8.8



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