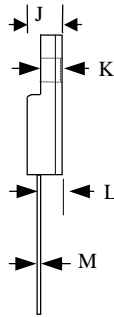
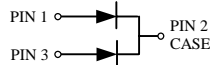
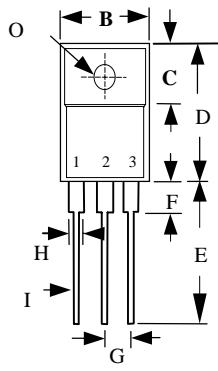


**FRONTIER
ELECTRONICS CO., LTD.**

**UFF80-005CT
THRU
UFF80-06CT**

8A DUAL ULTRA FAST RECOVERY RECTIFIER

CASE : ITO-220AB (UFF80-xx), FULLY INSULATED PACKAGE



	MILLIMETERS	
	MIN	MAX
B	9.72	10.27
C	6.30	6.90
D	14.50	15.50
E	13.00	13.80
F	-	4.1
G	2.41	2.67
H	-	1.52
I	-	0.9
J	-	4.8
K	-	3.1
L	2.5	2.9
M	-	0.8
O	-	Ø 3.4

FEATURES

- ULTRA FAST RECOVERY TIME
- LOW FORWARD VOLTAGE
- LOW THERMAL RESISTANCE
- HIGH CURRENT CAPABILITY
- HIGH VOLTAGE
- GLASS PASSIVATED CHIP JUNCTION

MECHANICAL DATA

- CASE : TRANSFER MOLDED
- TERMINAL : MIL-STD-202F METHOD 2026
- POLARITY : AS MARKED
- EPOXY : UL94V-0 FLAME RETARDANT MOLDING COMPOUND
- MOUNTING POSITION : ANY
- WEIGHT : 2.05 GRAMS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
 RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED
 SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD.
 FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

RATINGS	SYMBOL	UFF80-005CT	UFF80-01CT	UFF80-015CT	UFF80-02CT	UFF80-03CT	UFF80-04CT	UFF80-05CT	UFF80-06CT	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V _{RRM}	50	100	150	200	300	400	500	600	V
MAXIMUM RMS VOLTAGE	V _{RMS}	35	70	105	140	210	280	350	420	V
MAXIMUM DC BLOCKING VOLTAGE	V _{DC}	50	100	150	200	300	400	500	600	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT SEE FIG.1	I _O	8.0								A
PEAK FORWARDSURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I _{FSM}	125								A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	C _J	85						60		PF
TYPICAL THERMAL RESISTANCE (NOTE 2)	R _{θjc}	2.2								°C/W
STORAGE TEMPERATURE RANGE	T _{STG}	- 55 TO + 150								°C
OPERATING TEMPERATURE RANGE	T _{OP}	- 55 TO + 150								°C

ELECTRICAL CHARACTERISTICS (A_T T_A =25°C UNLESS OTHERWISE NOTED)

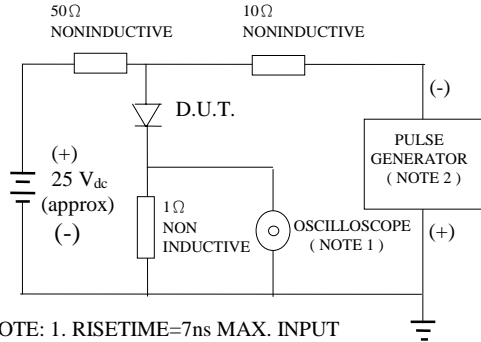
CHARACTERISTICS	SYMBOL	UFF80-005CT	UFF80-01CT	UFF80-015CT	UFF80-02CT	UFF80-03CT	UFF80-04CT	UFF80-05CT	UFF80-06CT	UNITS	
MAXIMUM FORWARD VOLTAGE AT 4A DC	V _F	0.95			1.30		1.50			V	
MAXIMUM DC REVERSE CURRENT AT TA=25°C	I _R	10								µA	
MAXIMUM DC REVERSE CURRENT AT TA=100°C	I _R	100								µA	
MAXIMUM REVERSE RECOVERY TIME (NOTE 3)	T _{RR}	35			50						nS

- NOTES : 1. MEASURED AT 1 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS
 2. THERMAL RESISTANCE JUNCTION TO CASE PER LEG MOUNTED ON HEATSINK
 3. REVERSE RECOVERY TEST CONDITIONS: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

RATINGS AND CHARACTERISTIC CURVE UFF80-005CT THRU UFF80-06CT

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FIG. 1 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTE: 1. RISE TIME = 7 ns MAX. INPUT IMPEDANCE = 1 MEGOHM 22PF
 2. RISE TIME = 10 ns MAX. SOURCE IMPEDANCE = 50 OHMS

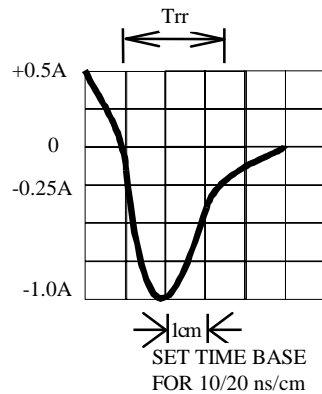


FIG. 2 - MAXIMUM FORWARD CURRENT DERATING CURVE

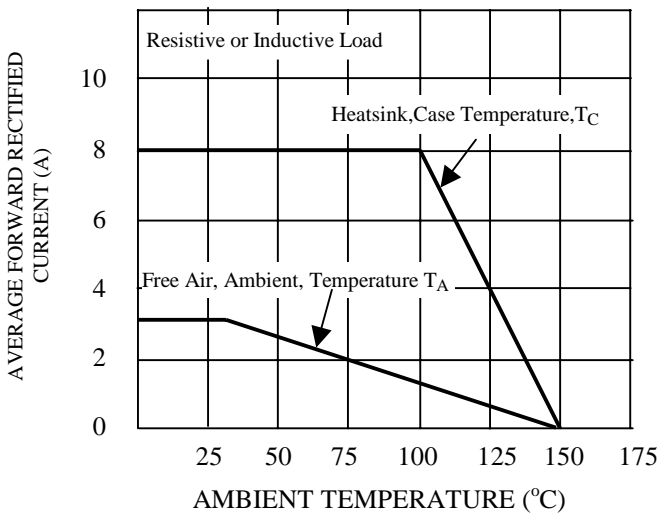


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

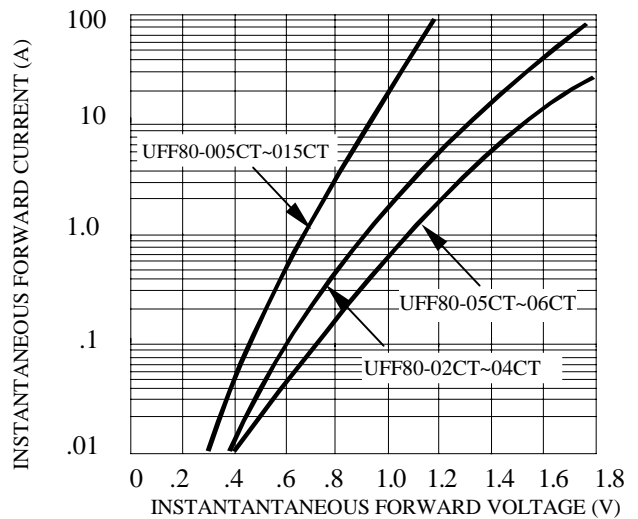


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

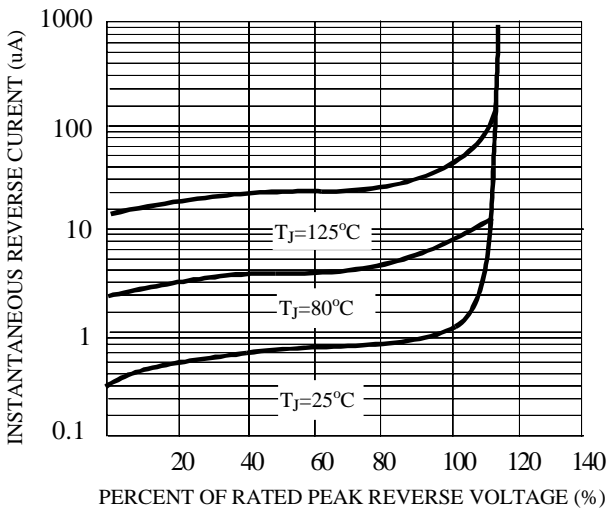


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

