

UFT3130C-UFT3150C

High-reliability discrete products and engineering services since 1977

DUAL ULTRAFAST RECOVERY RECTIFIER

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

Rating	Symbol	UFT3130C	UFT3140C	UFT3150C	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	300	400	500	
Working Peak Reverse Voltage	VRWM	300	400	500	V
DC Blocking Voltage	VR	300	400	500	
Average Forward Current Per Leg $T_C \le 95^{\circ}C$, Derate 0.375 A/°C above 95°C	I _{F(AV)}		30		А
Maximum Surge Current 8.3 ms, Half Sine Wave, T _J = 175°C	I _{FSM}		350		А
Operating Junction Temperature Range	٦J		-65 to 175		°C
Storage Junction Temperature Range	T _{stg}		-65 to 200		°C
Maximum Thermal Resistance Junction to Case	R _{ejc}		2.2		°C/W
Typical Weight			28		grams

ELECTRICAL CHARACTERISTICS PER LEG (T_A = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Maximum Peak Forward Voltage ⁽¹⁾ ($I_F = 15A, T_C = 25^{\circ}C$)	VF	1.10	V
Maximum Peak Reverse Current (V _R = V _{RRM} , T _C = 25°C) (V _R = V _{RRM} , T _C = 125°C)	IR	15 1.0	uA mA
Maximum Reverse Recovery Time $I_F = 0.5 A$, $I_R = 1.0 A$, $I_{REC} = 0.25 A$	t _{RR}	50	ns
Typical Reverse Recovery Time I _F = 0.5 A, I _R = 1.0 A, I _{REC} = 0.25 A	t _{RR}	36	ns
Typical Junction Capacitance $V_R = 10 V$, f = 1 MHz	CJ	115	pF

(1) Pulse Test: Pulse Width 300 us, Duty Cycle $\leq 2\%$



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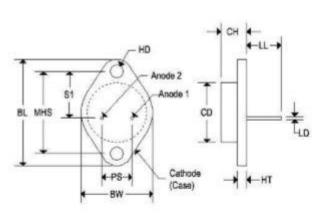
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MECHANICAL CHARACTERISTICS

Case	TO-3 Hermetically Sealed Metal Case
Marking	Alpha-numeric
Pin out	See below

1.71



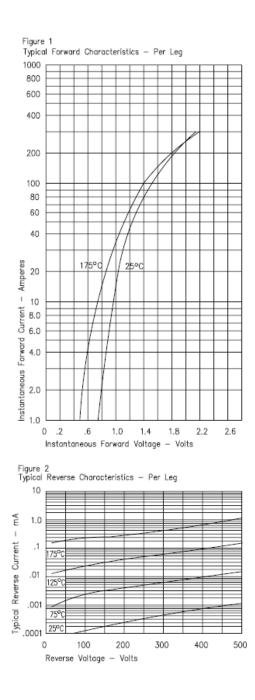
	TO-3 Dual					
	Inches		Millimeters			
	Min	Max	Min	Max		
CD	-	0.875	- 5	22.220		
CH	0.250	0.380	6.860	9.650		
HT	-3	0.135		3.430		
BW	- 28	1.050		26.670		
HD	0.131	0.188	3.330	4.780		
LD	0.038	0.043	0.970	1.090		
LL	0.312	0.500	7.920	12.700		
BL	1.550 REF		39.370 REF			
MHS	1.177	1.197	29.900	30.400		
PS	0.420	0.440	10.670	11.180		
S1	0.655	0.675	16.640	17.150		



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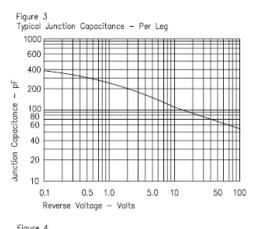


Figure 4 Forward Current Derating - Standard Polarity - Per Leg

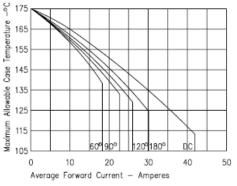
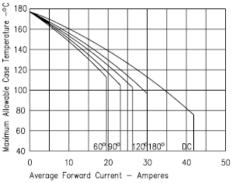


Figure 5 Forward Current Derating - Reverse Polarity - Per Leg





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