

UG6005PT Ultra Fast Rectifier

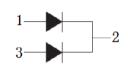
Features

- * Dual rectifier construction, positive center-tap
- * Superfast recovery time, high voltage
- * Low forward voltage, high current capability
- * Low thermal resistance
- * Low power loss, high efficiency



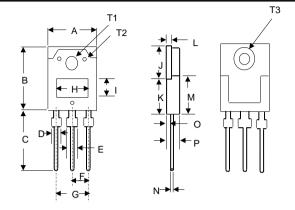






Mechanical Data

- * Case: TO-3P
- * Molding compound, UL flammability classification rating 94V-0
- * Polarity: As marked
- * Weight: 6.1g (approximately)



TO-3P							
DIM	INC	CHES	MM				
	MIN	MAX	MIN	MAX			
Α	0.61	0.62	15.50	15.70			
В	0.78	0.79	19.70	20.10			
С	0.79	0.81	20.10	20.50			
D	0.08 Typ.		2.00 Typ.				
Е	0.12 Typ.		3.00 Typ.				
F	0.21 Typ.		5.45 Typ.				
G	0.43 Typ.		10.9 Typ.				
Н	0.43	0.43	10.80	11.00			
I	0.35	0.35	8.80	9.00			
J	0.27	0.28	6.85	7.15			
K	0.50	0.51	12.75	13.05			
L	0.06	0.06	1.49	1.51			
M	0.54	0.55	13.70	14.00			
N	0.02	0.02	0.59	0.61			
0	0.05	0.06	1.32	1.48			
Р	0.19	0.19	4.70	4.90			
T1	0.14 Typ.		3.5 Typ.				
T2	0.06 Typ.		1.50 Typ.				
T3	0.28 Typ.		7.00 Typ.				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	UG6005PT	UNIT		
Maximum repetitive peak reverse voltage		V_{RRM}	300	V	
Maximum RMS voltage		V_{RMS}	210	٧	
Maximum DC blocking voltage	V_{DC}	300	V		
Maximum average forward rectified current		I _{F(AV)}	60	А	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	300	А	
Maximum instantaneous forward voltage (Note 1)	I _F =30A	V _F	1.25	V	
Maximum reverse current @ rated VR	T _J =25°C	I_	5	μΑ	
inaximum reverse current & rated VIX	T _J =125°C	I _R	600	μ/.	
Maximum reverse recovery time (Note 2)		trr	25	ns	
Typical thermal resistance		CJ	1.0	°C/W	
Operating junction temperature range		TJ	- 55 to +175	°C	
Storage temperature range		T _{STG}	- 55 to +175	°C	

Note 1: Pulse test with PW=300 µs, 1% duty cycle

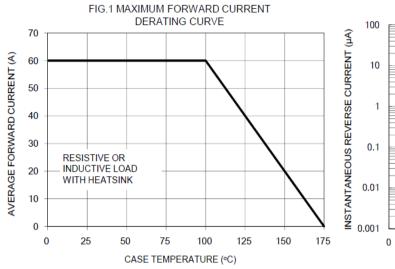
Note 2: Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

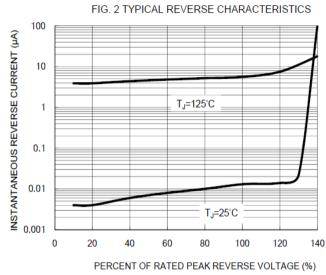
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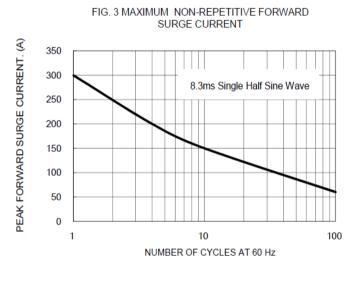


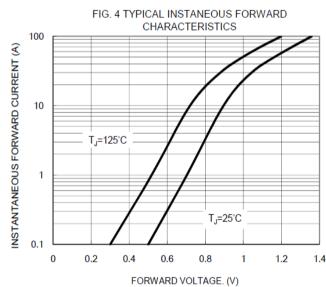
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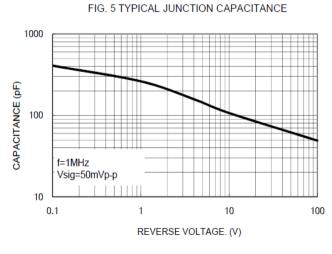
Ratings and Characteristic Curves

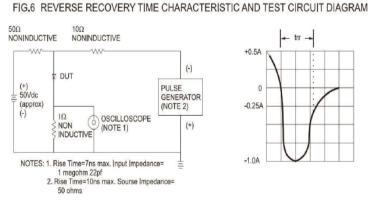












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Ordering Information

Part No.	Package	Packing Code	Packing
UG6005PT	TO-3P	ТХВ	30pcs/Tube

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