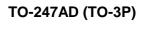
- Low lorward voltage, high current capability
- Low thermal resistance
- Low power loss, high efficiency
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition

MECHANICAL DATA

Case: TO-247AD (TO-3P) Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - halogen-free Terminal: Matte tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 1A whisker test Polarity: As marked Mounting torque: 10 in-lbs maximum Weight: 5.6g (approximately)







PIN 2

CASE

PIN 1 O-

PIN 3O



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)							
		SF	SF	SF	SF	SF	SF
PARAMETER	SYMBOL	3001	3002	3003	3004	3005	300
		РТ	РТ	РТ	РТ	РТ	РТ
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	300	400
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400
Maximum average forward rectified current	I _{F(AV)}	30			-		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	300					
Maximum instantaneous forward voltage (Note 1) I _F = 15 A	V _F	0.95 1.3			.3		
Maximum reverse current @ rated VR T_=25 $^\circ$ C	I _R	10					
T _J =125 ℃		500					
Maximum reverse recovery time (Note 2)	Trr	35					
Typical junction capacitance (Note 3)	Cj	175					
Typical thermal resistance	R _{θJC}	1.0					
Operating junction temperature range	TJ	- 55 to +150					
Storage temperature range	T _{STG}	- 55 to +150					
Note 1: Pulse Test with PW=300 us, 1% Duty Cycle	•						

Note 1: Pulse Test with PW=300 µs, 1% Duty Cycle

Note 2: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, Recover to 0.25A.

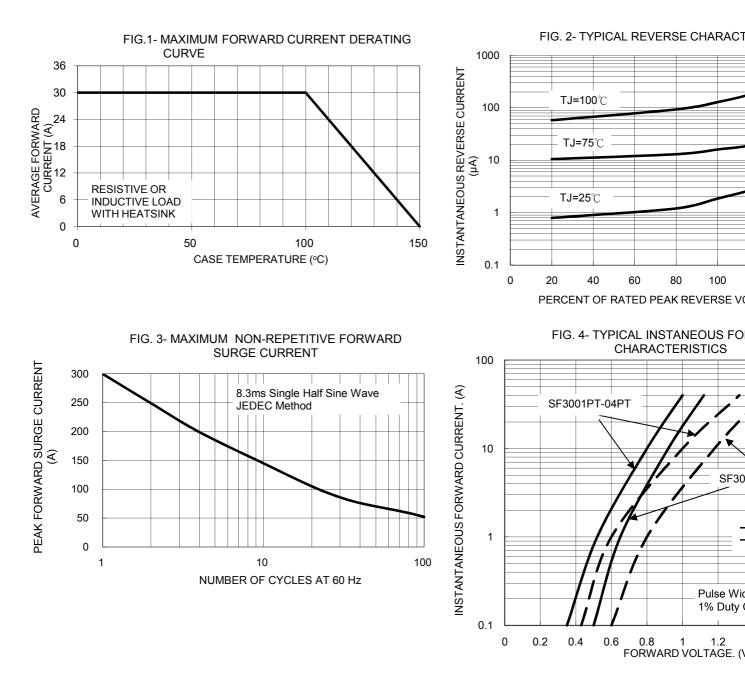
Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

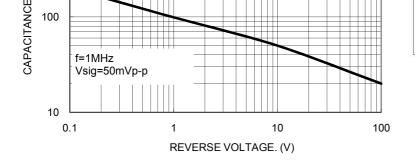
Document Number: DS_D1401017

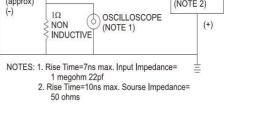
EXAMPLE							
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTIO			
SF3006PT C0	SF3006PT	CO					
SF3006PT C0G	SF3006PT	C0	G	Green compou			

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

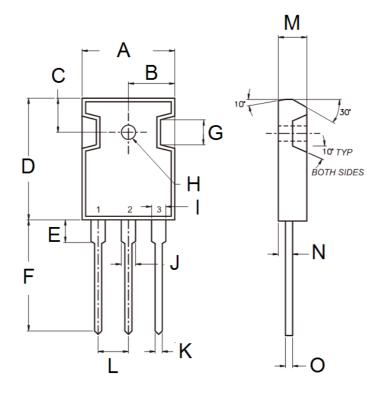






-0.25A

PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
	Min	Мах	Min	Max	
А	15.90	16.40	0.626	0.646	
В	7.90	8.20	0.311	0.323	
С	5.70	6.20	0.224	0.244	
D	20.80	21.30	0.819	0.839	
E	3.50	4.10	0.138	0.161	
F	19.70	20.20	0.776	0.795	
G	-	4.30	-	0.169	
Н	2.90	3.40	0.114	0.134	
I	1.93	2.18	0.076	0.086	
J	2.97	3.22	0.117	0.127	
K	1.12	1.22	0.044	0.048	
L	5.20	5.70	0.205	0.224	
М	4.90	5.16	0.193	0.203	
Ν	2.70	3.00	0.106	0.118	
0	0.51	0.76	0.020	0.030	

MARKING DIAGRAM



= Marking Code

P/N

YWW

G

F

- = Green Compound
- = Date Code
- = Factory Code

Document Number: DS_D1401017

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