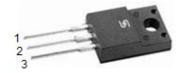


Trench Schottky Rectifier

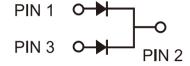
FEATURES

- Patented Trench Schottky technology
- Excellent high temperature stability
- Low forward voltage
- Low power loss/ high efficiency
- High forward surge capability
- Compliant to RoHS directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition





ITO-220AB





TYPICAL APPLICATIONS

Trench Schottky barrier rectifier are designed for high frequency miniature switched mode power supplies such as adapters, lighting and on-board DC/DC converters.

MECHANICAL DATA

Case: ITO-220AB

Molding compound meets UL 94 V-0 flammability rating

Packing code with suffix "G" means green compund (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test

Polarity: As marked

Mounting torque: 0.56 Nm max. **Weight:** 1.7 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)							
PARAMETER			SYMBOL	TSF30H60C			UNIT
Maximum repetitive peak reverse voltage			V_{RRM}	60		V	
Maximum average forward rectified	per device		I _{F(AV)}	30			A
current	per diode			15			
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load per diode			I _{FSM}	170		А	
Voltage rate of change (Rated V _R)			dV/dt	10000		V/µs	
Isolation voltage from terminal to heatsink t = 1 min			V_{AC}	1500		V	
				Min.	Тур.	Max.	
	I _F = 5A	T _J = 25°C		-	0.45	-	V
	I _F = 7.5A		- V _F	-	0.48	-	
Instantaneous forward voltage per diode	I _F = 15A			-	0.55	0.70	
(Note1)	I _F = 5A			-	0.36	-	
	I _F = 7.5A			-	0.41	-	
	I _F = 15A			-	0.52	-	
Instantaneous reverse current per diode at rated T _J = 25°C			1	-	15	500	μA
•		T _J = 125°C	_ I _R _	-	10	45	mA
Typical thermal resistance per diode			$R_{ heta JC}$	4.5			°C/W
Operating junction temperature range			TJ	- 55 to +150			оС
Storage temperature range			T _{STG}	- 55 to +150			оС

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

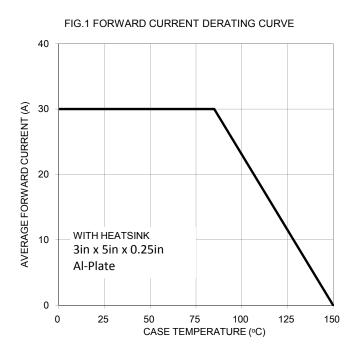


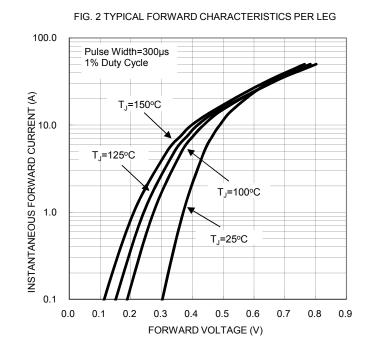
ORDERING INFORMATION					
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING	
TSF30H60C	C0	G	ITO-220AB	50 / Tube	

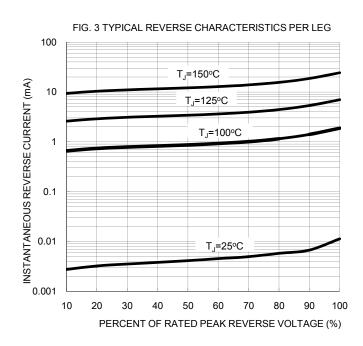
EXAMPLE					
PREFERRED PART NO. PACE		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
TSF30H60C C0G	TSF30H60C	C0	G	Green compound	

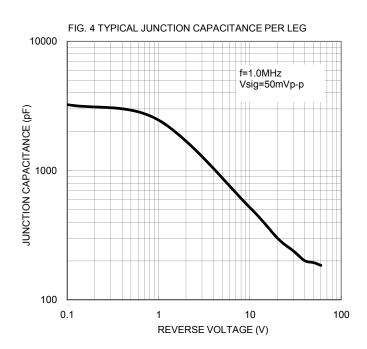
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)





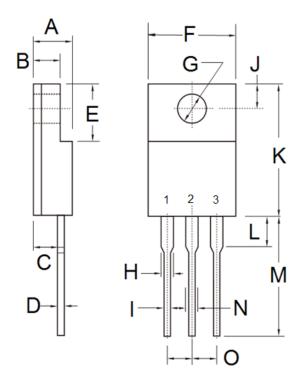




Version: C14



PACKAGE OUTLINE DIMENSIONS ITO-220AB



DIM.	Unit	(mm)	Unit (inch)		
	Min	Max	Min	Max	
Α	4.30	4.70	0.169	0.185	
В	2.50	3.16	0.098	0.124	
С	2.30	2.96	0.091	0.117	
D	0.46	0.76	0.018	0.030	
Е	6.30	6.90	0.248	0.272	
F	9.60	10.30	0.378	0.406	
G	3.00	3.40	0.118	0.134	
Н	0.95	1.45	0.037	0.057	
I	0.50	0.90	0.020	0.035	
J	2.40	3.20	0.094	0.126	
K	14.80	15.50	0.583	0.610	
L	-	4.10	-	0.161	
М	12.60	13.80	0.496	0.543	
N	-	1.80	-	0.071	
0	2.41	2.67	0.095	0.105	

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code







Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied,to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or seling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.

Version: C14