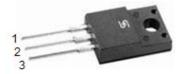




Trench Schottky Rectifier

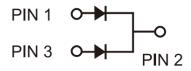
FEATURES

- Patented Trench Schottky technology
- Excellent high temperature stability
- Low forward voltage
- Lower 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





MECHANICAL DATA

Case: ITO-220AB

Molding compound, UL flammability classification rating 94V-0 Packing code with suffix "G" means green compound (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:** 1.7g (approximately)

MAXIMUM RATINGS AND ELEC	CTRICAL CHARACTE	ERISTICS ((T _A =25°C unle	ss otherwise no	oted)	
PARAMETER		SYMBOL	TSF10U60C		UNIT	
Maximum repetitive peak reverse voltage		V_{RRM}		60		V
Maximum average forward rectified	per device	ı	10			Α
current	per diode	I _{F(AV)}	5			
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load per diode		I _{FSM}	150		А	
/oltage rate of change (rated VR)		dV/dt	10000		V/µs	
solation voltage from terminal to heatsink t = 1 min		V_{AC}	2000		V	
Breakdown voltage (I _R =1.0mA, Ta =25°C)		V_{BR}	Min.	TYP.	MAX.	
Breakdown voltage (IR = 1.5mi/k, 1a =25 K	, ,	V BR	60	Min. TYP. MAX.		V
Maying up instantaneous forward valtage	$I_F = 5A$ $T_J = 25^{\circ}C$	V _F	ı	0.44	0.48	V
laximum instantaneous forward voltage er diode (Note1)	I _F = 10A		ī	0.54	0.62	
per diode (Note 1)	$I_F = 5A$ $T_J = 125^{\circ}C$		-	- 0.44 0.54 0.39	0.42	
Maximum instantaneous reverse current	per diode at T _J = 25°C	I _R	-	-	500	μA
rated reverse voltage	$T_{J} = 125^{\circ}C$		-	-	100	mA
Typical thermal resistance per diode		$R_{ heta JC}$	4			°C/W
Operating junction temperature range		T _J	- 55 to +150			°C
Storage temperature range		T _{STG}	- 55 to +150			°C
		1				

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



ORDERING INFORMATION				
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
TSF10U60C	C0	G	ITO-220AB	50 / Tube

EXAMPLE						
PREFERRED PART NO.	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
TSF10U60C C0G	TSF10U60C	C0	G	Green compound		

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

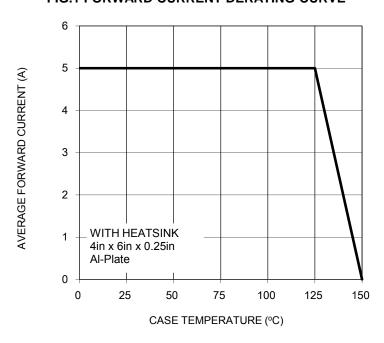


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

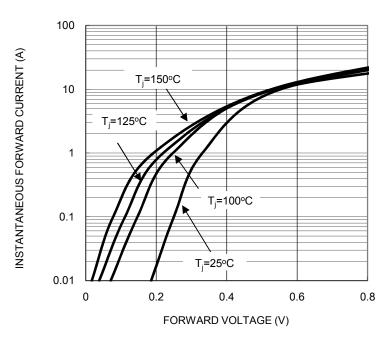


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

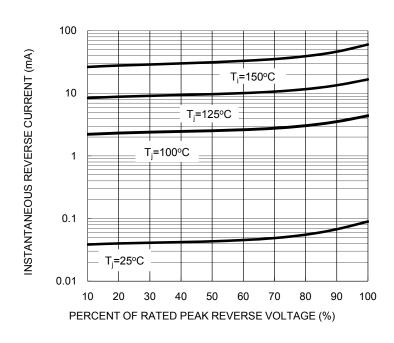
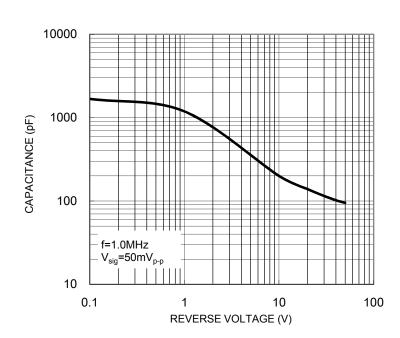


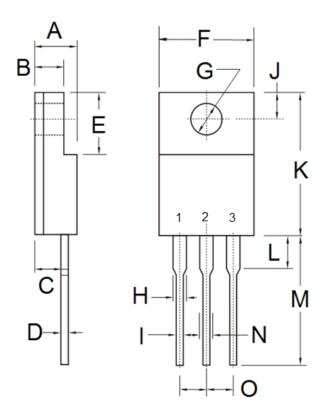
FIG. 4 TYPICAL JUNCTION CAPACITANCE





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	
ı	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	-	1.45	-	0.057	
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.

Document Number: DS_D1411033 Version: E14