imall

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Dual High-Voltage Trench Schottky Rectifier

FEATURES

- Patented Trench Schottky technology
- Excellent high temperature stability
- Low forward voltage
- Lower power loss/ high efficiency

TYPICAL APPLICATIONS

and on-board DC/DC converters.

Meet JESD 201 class 2 whisker test

Mounting torque: 0.56 Nm Max.

MECHANICAL DATA

Case: ITO-220AB

Polarity: As marked

- 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

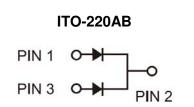
Trench Schottky barrier rectifier are designed for high frequency miniature switched mode power supplies such as adapters, lighting

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









MAXIMUM RATINGS AND ELEC	TRICAL	CHARACIE					
PARAMETER		SYMBOL	TSF20U100C 100			UNIT	
Maximum repetitive peak reverse voltage							V _{RRM}
Maximum average forward rectified current	per device		– I _{F(AV)} –	20			- A
	per diode			10			
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load per diode		I _{FSM}	150		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	TYP	MAX	
	I _F = 5A	— T _J = 25°C	V _F	-	0.54	-	V
nstantaneous forward voltage per diode	I _F = 10A			-	0.64	0.79	
(Note1)	I _F = 5A	— T _J = 125°C	V _F	-	0.48	-	
	I _F = 10A			-	0.57	0.68	
Instantaneous reverse current per diode at rated $T_J = 25^{\circ}C$ reverse voltage $T_J = 125^{\circ}C$			-	-	500	μA	
		T _J = 125°C	I _R	-	3.00	25	mA
Typical thermal resistance per diode			R _{θJC}	4			°C/W
Operating junction temperature range			TJ	- 55 to +150			°C
Storage temperature range			T _{STG}	- 55 to +150			°C



Taiwan Semiconductor

ORDERING INFORMATION					
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING	
TSF20U100C	CO	G	ITO-220AB	50 / Tube	

EXAMPLE					
PREFERRED PART NO.	PART NO. PACKING CODE		PACKING CODE SUFFIX	DESCRIPTION	
TSF20U100C C0G	TSF20U100C	CO	G	Green compound	

RATINGS AND CHARACTERISTICS CURVES

 $(T_A=25^{\circ}C \text{ unless otherwise noted})$

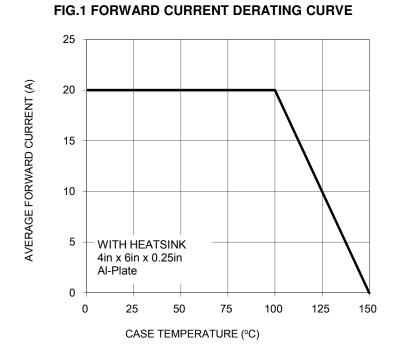


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

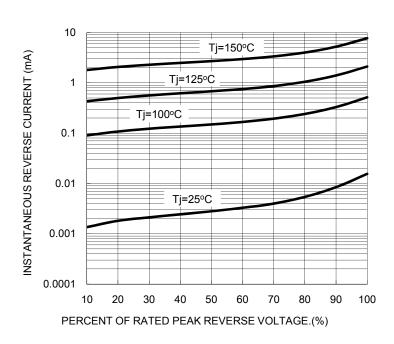


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

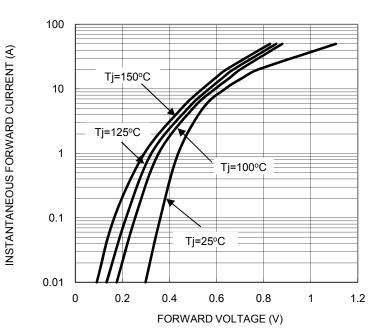
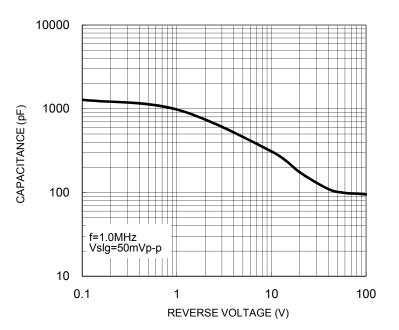


FIG. 4 TYPICAL JUNCTION CAPACITANCE

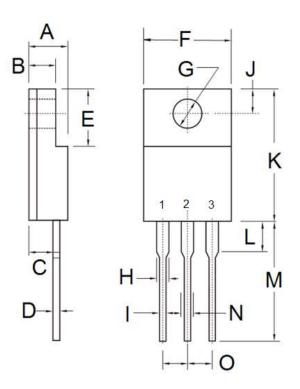


Document Number: DS_D1411041



TSF20U100C Taiwan Semiconductor

PACKAGE OUTLINE DIMENSIONS ITO-220AB



G

F

DIM.	Unit	(mm)	Unit (inch)		
Diwi.	Min	Мах	Min	Max	
А	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	
E	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	
К	14.80	15.50	0.583	0.610	
L	-	4.10	-	0.161	
М	12.60	13.80	0.496	0.543	
Ν	-	1.80	-	0.071	
0	2.41	2.67	0.095	0.105	

MARKING DIAGRAM

Ð	GYWWF
	P/N
\rightarrow	

- P/N = Specific Device Code
 - = Green Compound
- YWW = Date Code
 - = Factory Code



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