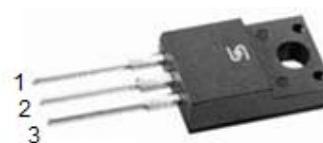
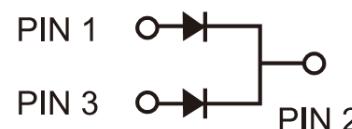


## Trench Schottky Rectifier

### 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 ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ unless otherwise noted)							
PARAMETER			SYMBOL	TSF10U60C			UNIT
Maximum repetitive peak reverse voltage			$V_{RRM}$	60			V
Maximum average forward rectified current	per device		$I_{F(AV)}$	10			A
	per diode			5			
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load per diode			$I_{FSM}$	150			A
Voltage rate of change (rated VR)			$dV/dt$	10000			V/ $\mu\text{s}$
Isolation voltage from terminal to heatsink $t = 1$ min			$V_{AC}$	2000			V
Breakdown voltage ( $I_R = 1.0\text{mA}$ , $T_a = 25^\circ\text{C}$ )			$V_{BR}$	Min.	TYP.	MAX.	
				60	-	-	V
Maximum instantaneous forward voltage per diode (Note1)	$I_F = 5\text{A}$	$T_J = 25^\circ\text{C}$	$V_F$	-	0.44	0.48	V
	$I_F = 10\text{A}$			-	0.54	0.62	
	$I_F = 5\text{A}$	$T_J = 125^\circ\text{C}$		-	0.39	0.42	
Maximum instantaneous reverse current per diode at rated reverse voltage	$T_J = 25^\circ\text{C}$		$I_R$	-	-	500	$\mu\text{A}$
	$T_J = 125^\circ\text{C}$			-	-	100	mA
Typical thermal resistance per diode			$R_{\theta JC}$	4			$^\circ\text{C}/\text{W}$
Operating junction temperature range			$T_J$	- 55 to +150			$^\circ\text{C}$
Storage temperature range			$T_{STG}$	- 55 to +150			$^\circ\text{C}$

 Note 1: Pulse Test with Pulse Width=300  $\mu\text{s}$ , 1% Duty Cycle

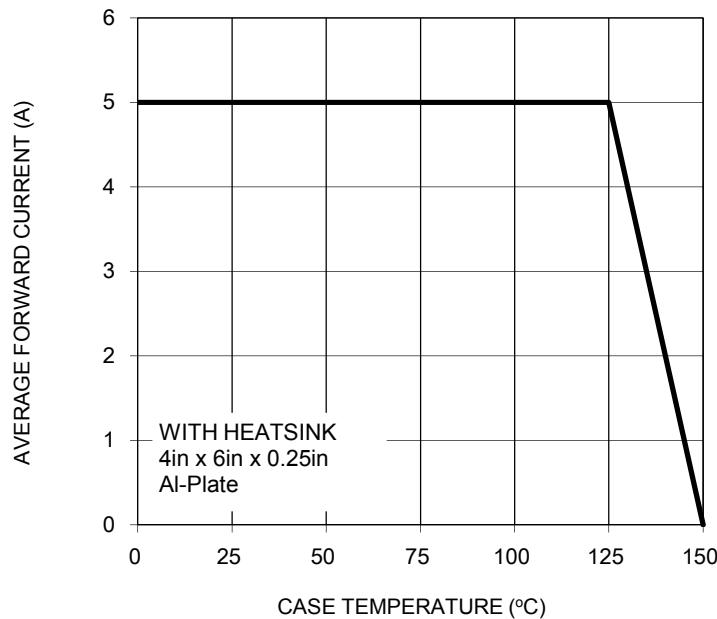
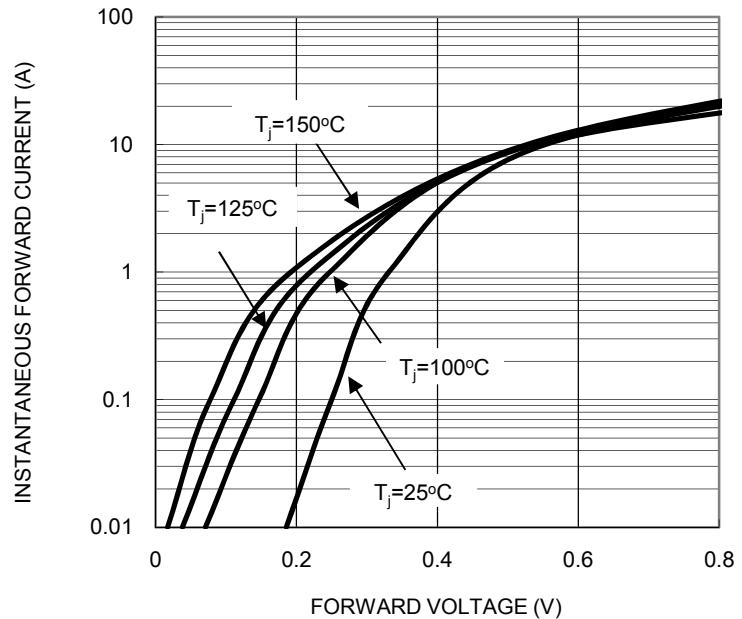
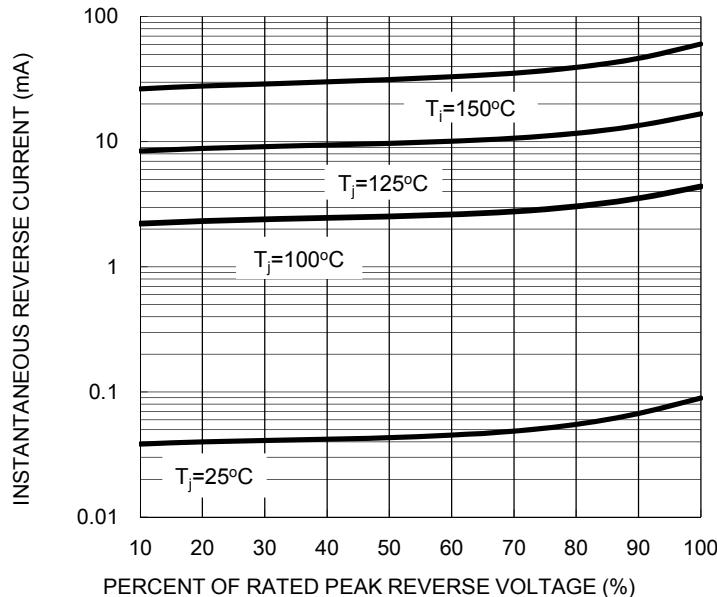
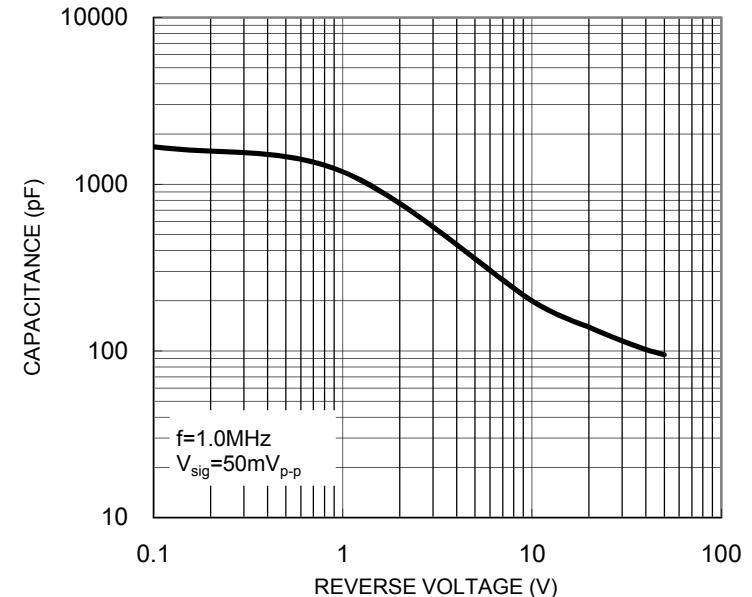
**ORDERING INFORMATION**

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

**EXAMPLE**

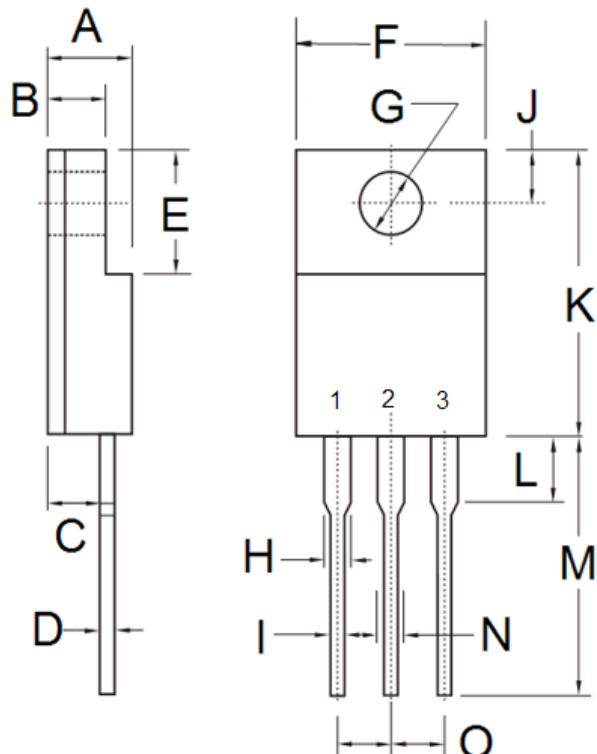
PREFERRED PART NO.	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
TSF10U60C C0G	TSF10U60C	C0	G	Green compound

**RATINGS AND CHARACTERISTICS CURVES**
 $(T_A=25^\circ\text{C}$  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
A	4.30	4.70	0.169	0.185
B	2.50	3.16	0.098	0.124
C	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
H	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
M	12.60	13.80	0.496	0.543
N	-	1.45	-	0.057
O	2.41	2.67	0.095	0.105

MARKING DIAGRAM



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

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