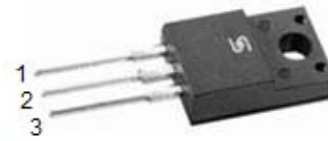


Dual High-Voltage Trench Schottky Rectifier

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

Base P/N with suffix "G" on packing code - halogen-free

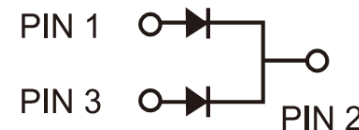
Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

Polarity: As marked

Mounting torque: 0.56Nm max.

Weight: 1.7g



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)						
PARAMETER		SYMBOL	TSF10H100C			UNIT
Maximum repetitive peak reverse voltage		V _{RRM}	100			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}	120			A
Peak repetitive reverse surge current (Note 1)		I _{RSM}	0.5			A
Non-repetitive avalanche energy at L=60mH, per diode		E _{AS}	60			mJ
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
Breakdown voltage (I _R =1.0mA)		V _{BR}	MIN.	TYP.	MAX.	V
			100	-	-	
Instantaneous forward voltage per diode (Note2)	I _F = 5A	V _F	T _J = 25°C	-	0.8	V
			T _J = 125°C	-	0.7	
Instantaneous reverse current per diode at rated reverse voltage		I _R	T _J = 25°C	-	100	μA
			T _J = 100°C	-	6	mA
Typical thermal resistance (Note 3)		R _{θJC}	4.3			°C/W
Operating junction temperature range		T _J	- 55 to +150			°C
Storage temperature range		T _{STG}	- 55 to +150			°C

Note 1: 2.0 μs Pulse width, f=1.0 kHz

Note 2: Pulse test with pulse width=300 μs, 1% duty cycle

Note 3: Mount on heatsink size of 4in x 6in x 0.25in Al-plate

ORDERING INFORMATION				
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
TSH10H100C	C0	Suffix "G"	ITO-220AB	50 / Tube

EXAMPLE				
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
TSF10H100C C0	TSF10H100C	C0		
TSF10H100C C0G	TSF10H100C	C0	G	Green compound

RATINGS AND CHARACTERISTICS CURVES

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

FIG.1 FORWARD CURRENT DERATING CURVE

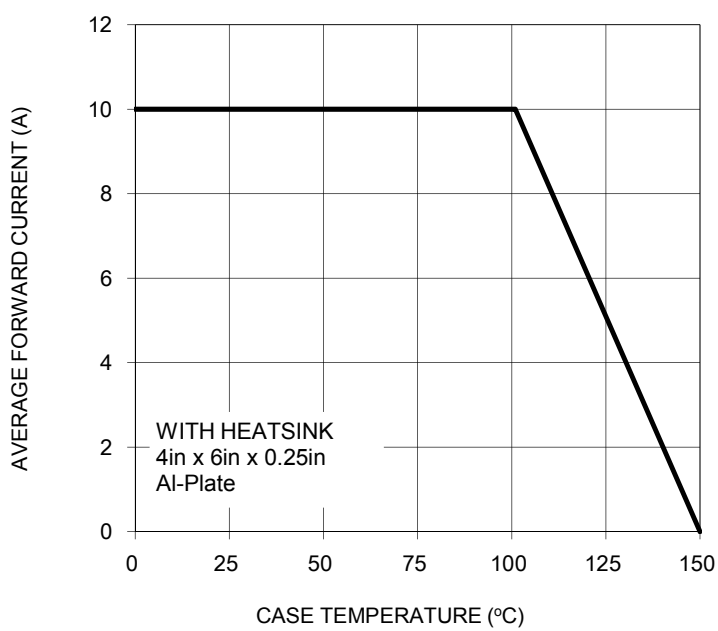


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

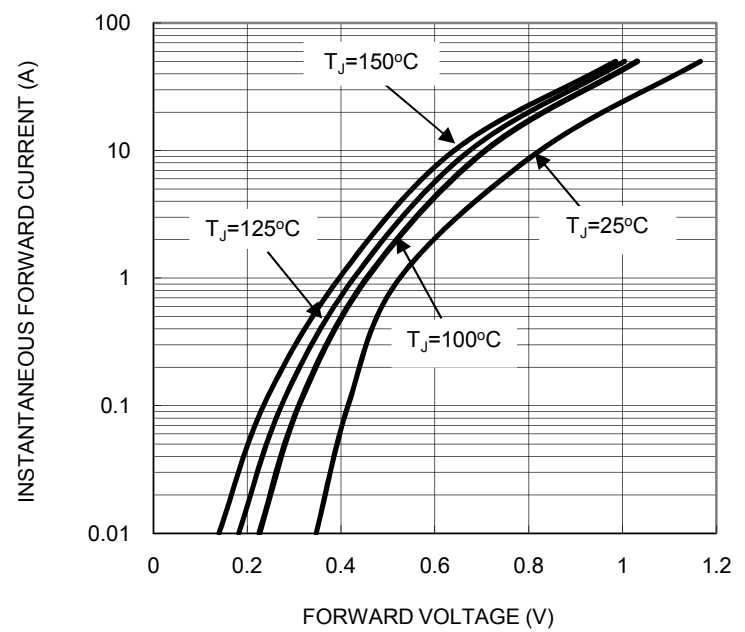


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

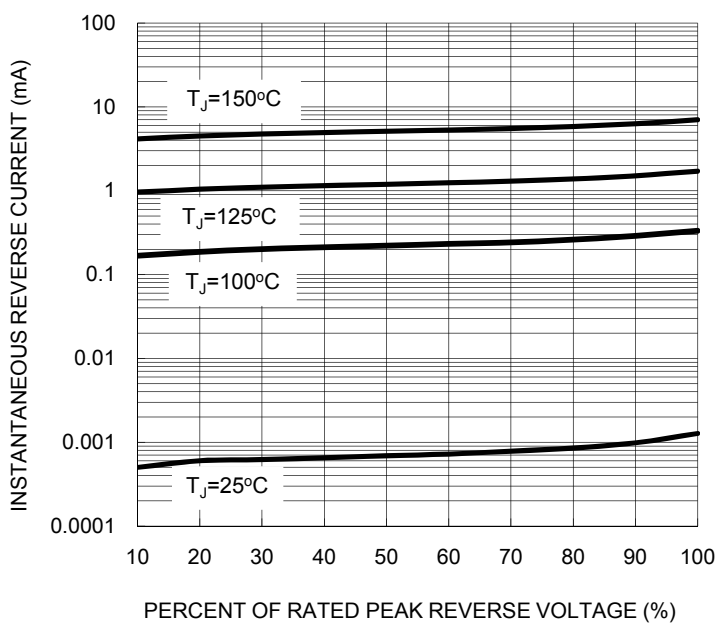
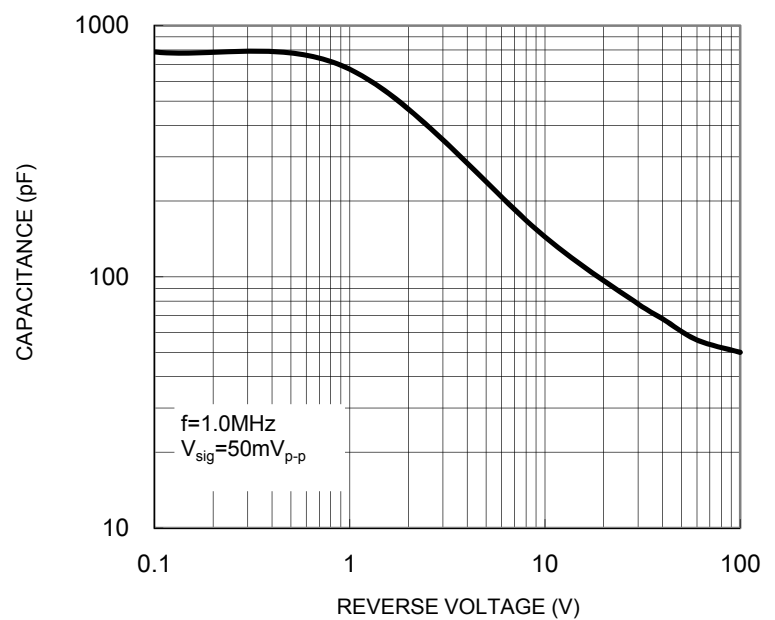
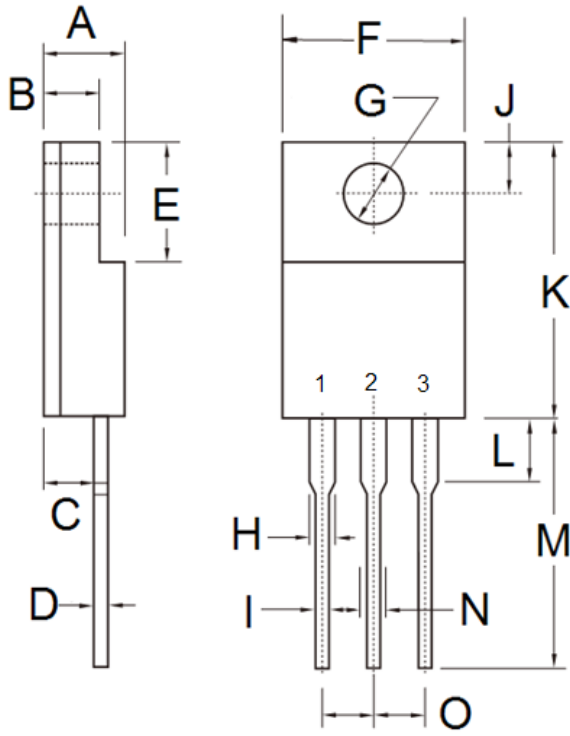


FIG. 4 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



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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