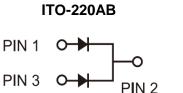


Dual High-Voltage Trench Schottky Rectifier

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





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 1A whisker test **Polarity:** As marked **Mounting torque:** 0.56 Nm Max. **Weight:** 1.7g (approximately)

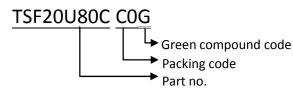
MAXIMUM RATINGS AND ELE	CTRICAL CHARACTI	ERISTICS(T _A =2	25°C unless ot	herwise noted)		
PARAMETER		SYMBOL	TSF20U80C			UNIT
Maximum repetitive peak reverse voltage		V _{RRM}	80		V	
Maximum average forward rectified current	per device		20			- A
	per diode	I _{F(AV)}	10			
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load per diode		I _{FSM}	100		А	
Peak repetitive reverse surge current (Note 1)		I _{RRM}	0.5		Α	
Non-repetitive avalanche energy at L=60mH, per diode		E _{AS}	110		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	
			MIN.	TYP.	MAX.	
Breakdown voltage(I _R =1.0mA)		V _{BR}	80	-	-	V
Instantaneous forward voltage per diode (Note 2)	$I_F = 5A$ $T_J = 25^{\circ}C$	V _F	-	0.52	-	V
	I _F = 10A	V F	-	0.67	0.77	
	$I_F = 5A$ $T_J = 125^{\circ}C$	V _F	-	0.48	-	
	I _F = 10A	VF	-	0.62	0.70	
Instantaneous reverse current per diode at rated $T_J = 25^{\circ}C$ reverse voltage $T_J = 125^{\circ}C$			-	20	600	μA
		I	-	10	20	mA
Typical thermal resistance		R _{θJC}	5		°C/W	
Operating junction temperature range		TJ	- 55 to +150			°C
Storage temperature range		T _{STG}	- 55 to +150			°C
Noto 1: 2.0 us Dulso width f=1.0 kHz						

Note 1: 2.0 µs Pulse width, f=1.0 kHz

Note 2: Pulse test with pulse width=300 $\mu s,\,1\%$ duty cycle



ORDER INFORMATION (EXAMPLE)



RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

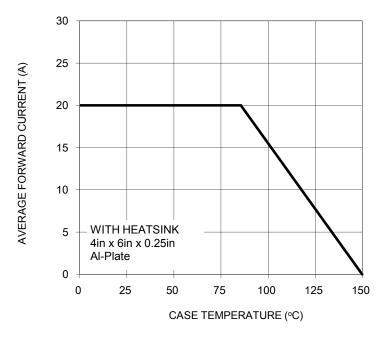


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

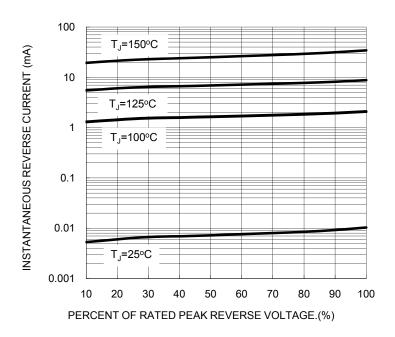


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

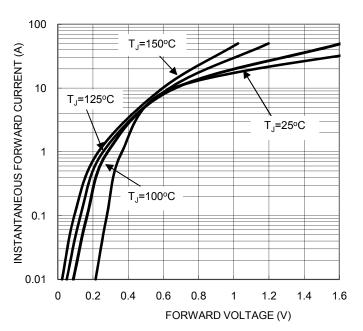
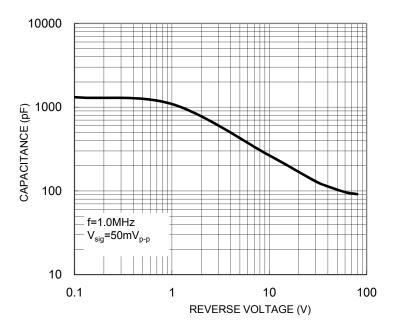
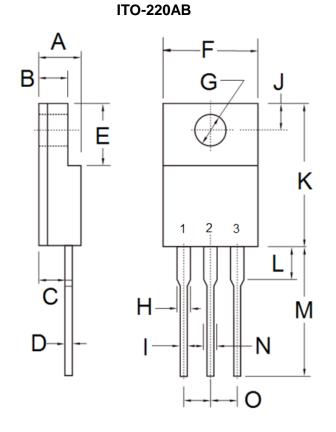


FIG. 4 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
Divi.	Min	Max	Min	Мах	
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	
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	
Ν	-	1.45	-	0.057	
0	2.41	2.67	0.095	0.105	

MARKING DIAGRAM

S GYWWF	P/N	
	G	
P/N	YWW	
	F	

- = Specific Device Code
- = Green Compound
- = Date Code
- = Factory Code



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