imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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20A, 200V - 600V Isolated Ultra Fast Rectifiers

FEATURES

- High efficiency, low VF
- High current capability
- High reliability
- High surge current capability
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21

DESCRIPTION

- UGF200xG series are ideal devices for free wheeling function in switching mode power supply and high frequency DC/DC converters
- UGF200xG series: their low stored charge and ultrafast soft recovery minimizes ringing and electrical noise in power switching circuits reducing power loss

MECHANICAL DATA

Case: ITO-220AB

Molding compound, UL flammability classification rating 94V-0

Part no. with suffix "H" means AEC-Q101 qualified

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: 5 in-lbs maximum

Weight: 1.7g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)							
PARAMETER	SYMBOL	UGF	UGF	UGF	UGF	UGF	UNIT
PARAMETER		2004G	2005G	2006G	2007G	2008G	
Maximum repetitive peak reverse voltage	V _{RRM}	200	300	400	500	600	V
Maximum RMS voltage	V _{RMS}	140	210	280	350	420	V
Maximum DC blocking voltage	V _{DC}	200	300	400	500	600	V
Maximum average forward rectified current	I _{F(AV)}			20		-	Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150				А	
Maximum instantaneous forward voltage (Note 1) I_F = 10 A	V _F	0.95	1.25 1.70		70	V	
Maximum reverse current @ rated V_R T _J =25°C T _J =125°C	I _R	5 100		μA			
Maximum reverse recovery time (Note 2)	t _{rr}	20 25			ns		
Typical thermal resistance	$R_{ extsf{ heta}JC}$	2				°C/W	
Operating junction temperature range	TJ	- 55 to +175 - 55 to +150			°C		
Storage temperature range	T _{STG}	- 55 to +175 - 55 to +150			°C		

Note 1: Pulse Test with PW=300 $\mu s,\,1\%$ Duty Cycle

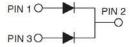
Note 2: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A







ITO-220AB





Taiwan Semiconductor

ORDERING INFORMATION

PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING
UGF200xG (Note 1)	Н	CO	G	ITO-220AB	50 / Tube

Note 1: "xx" defines voltage from 200V (UGF2004G) to 600V (UGF2008G)

*: Optional available

EXAMPLE						
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
UGF2004GHC0G	UGF2004G	Н	CO	G	AEC-Q101 qualified Green compound	

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

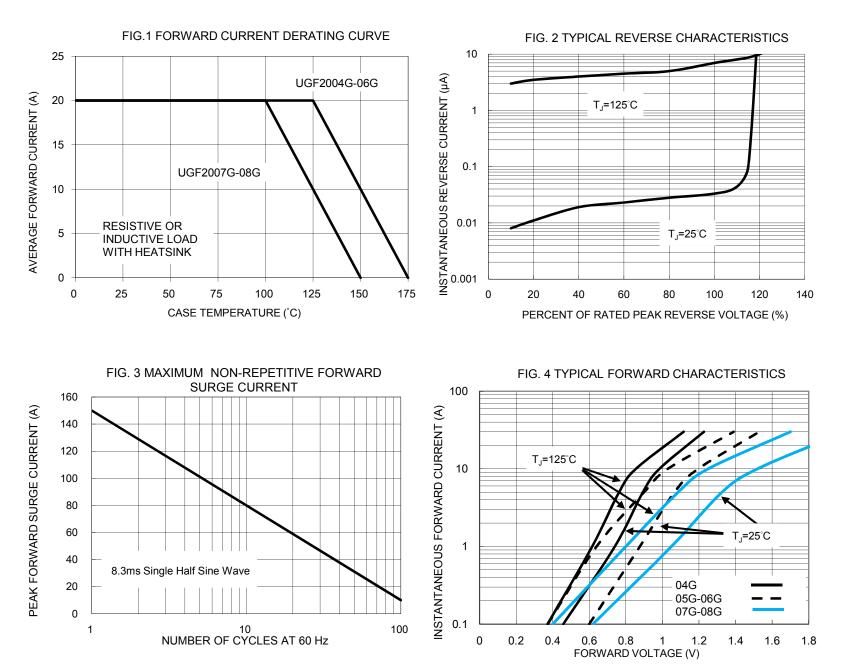
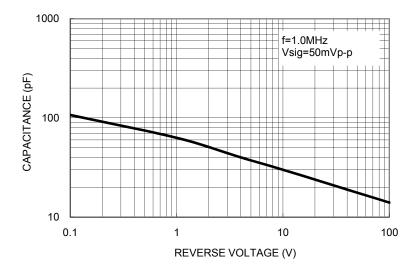
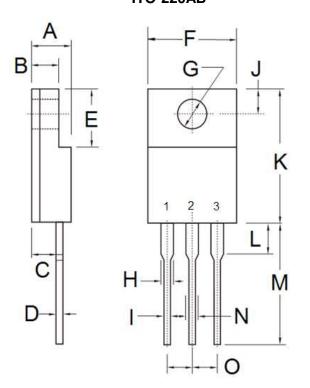




FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS ITO-220AB



DIM.	Unit	(mm)	Unit (inch)		
DIM.	Min	Max	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	
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	-	1.80	-	0.071	
0	2.41	2.67	0.095	0.105	

MARKING DIAGRAM



P/N = Specific Device Code G

F

- = Green Compound
- YWW = Date Code
 - = Factory Code



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