

7A, 35V - 150V Isolated Schottky Barrier Rectifiers

FEATURES

- Low power loss, high efficiency
- Guard ring for over-voltage protection
- 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

MECHANICAL DATA

Case: ITO-220AC

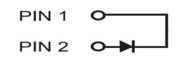
Molding compound: UL flammability classification rating 94V-0 Part no. with suffix "H" means AEC-Q101 qualified Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 2 whisker test **Polarity:** As marked **Mounting torque:** 0.56 Nm max. **Weight:** 1.7 g (approximately)











		MBRF	MBRF	MBRF	MBRF	MBRF	MBRF	MBRF	UNIT
PARAMETER	SYMBOL	735	745	750	760	790	7100	7150	
Maximum repetitive peak reverse voltage	V _{RRM}	35	45	50	60	90	100	150	V
Maximum RMS voltage	V _{RMS}	24	31	35	42	63	70	105	V
Maximum DC blocking voltage	V _{DC}	35	45	50	60	90	100	150	V
Maximum average forward rectified current	ximum average forward rectified current I _{F(AV)} 7.5				Α				
Peak repetitive forward current (Rated V _R , Square wave, 20KHz)	I _{FRM}	15						A	
eak forward surge current, 8.3 ms single half ne-wave superimposed on rated load					А				
Peak repetitive reverse surge current (Note 1)	I _{RRM}	1.0 0.5					Α		
Maximum instantaneous forward voltage (Note 2) I_F =7.5A, T _J =25°C			-	0.	75	0.	92	1.02	
I _F =7.5A, T _J =125°C	V _F	0.	57	0.	65	0.	82	0.92	V
I _F =15A, T _J =25°C		0.84			-		-	-	
I _F =15A, T _J =125°C		0.	72		-		-	-	
Maximum reverse current @ rated V_{R}	I_	0.1						mA	
T _J =125°C	۱ _R	1	15 10 5						
Voltage rate of change (Rated V _R)	dV/dt	10000			V/µs				
Typical thermal resistance	$R_{ extsf{ heta}JC}$	7			°C/W				
Operating junction temperature range	TJ	- 55 to +150			°C				
Storage temperature range	T _{STG}	- 55 to +175			°C				

Note 1: tp = 2.0 µs, 1.0KHz

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



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ORDERING INFORMATION							
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING		
MBRF7xx (Note 1)	Н	CO	G	ITO-220AC	50 / Tube		

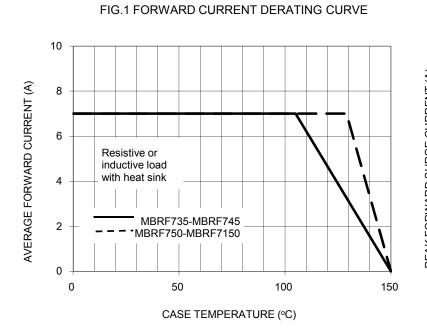
Note 1: "xx" defines voltage from 35V (MBRF735) to 150V (MBRF7150)

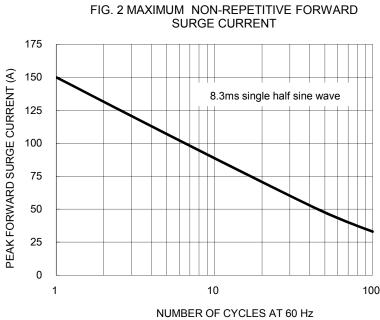
*: Optional available

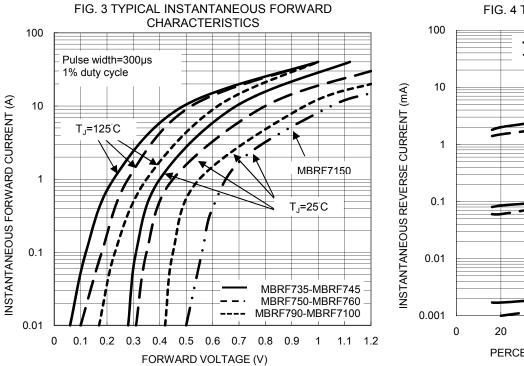
EXAMPLE							
EXAMPLE P/N	EXAMPLE P/N PART NO.		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
MBRF760HC0G	MBRF760	Н	CO	G	AEC-Q101 qualified Green compound		

RATINGS AND CHARACTERISTICS CURVES

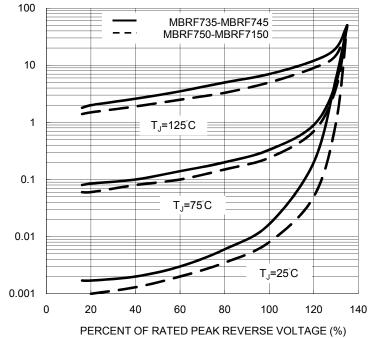
(T_A=25°C unless otherwise noted)





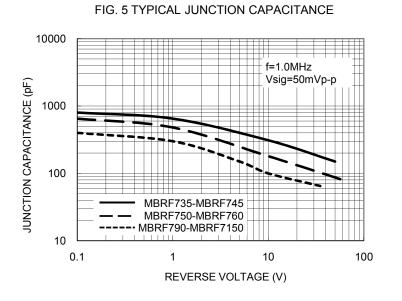


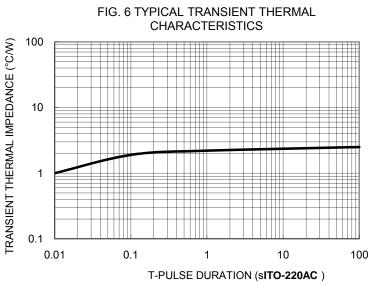




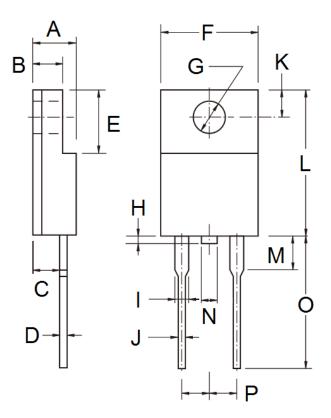


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P/N

YWW F

G

DIM.	Unit	(mm)	Unit (inch)		
DIN.	Min	Мах	Min	Max	
А	4.30	4.70	0.169	0.185	
В	2.50	3.10	0.098	0.122	
С	2.30	2.90	0.091	0.114	
D	0.46	0.76	0.018	0.030	
Ш	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	0.00	1.60	0.000	0.063	
Ι	0.95	1.45	0.037	0.057	
J	0.50	0.90	0.020	0.035	
K	2.40	3.20	0.094	0.126	
L	14.80	15.50	0.583	0.610	
М	-	4.10	-	0.161	
Ν	-	1.80	-	0.071	
0	12.60	13.80	0.496	0.543	
Р	4.95	5.20	0.195	0.205	

MARKING DIAGRAM



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



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