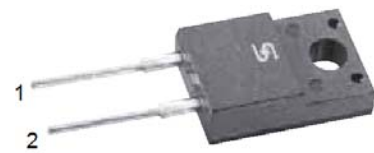
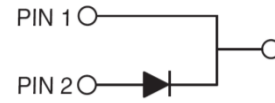


- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



ITO-220AC



MECHANICAL DATA

Case : ITO-220AC

Molding compound, UL flammability classification rating 94V-0
 Base P/N with suffix "G" on packing code - halogen-free, RoHS compliant
 Base P/N with prefix "H" on packing code - AEC-Q101 qualified

Terminal : Matte tin plated leads, solderable per JESD 22-B102
 Meet JESD 201 class 1A whisker test,
 with prefix "H" on packing code meet JESD 201 class 2 whisker test

Polarity : As marked

Mounting torque : 5 in-lbs maximum

Weight : 1.7 gram (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	MBRF	MBRF	MBRF	MBRF	MBRF	MBRF	MBRF
		1035	1045	1050	1060	1090	10100	10100
Maximum repetitive peak reverse voltage	V _{RRM}	35	45	50	60	90	100	150
Maximum RMS voltage	V _{RMS}	24	31	35	42	63	70	100
Maximum DC blocking voltage	V _{DC}	35	45	50	60	90	100	150
Maximum average forward rectified current	I _{F(AV)}	10						
Peak repetitive forward current (Rated V _R , square wave, 20KHz)	I _{FRM}	20						
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150						
Peak repetitive reverse surge current (Note 1)	I _{RRM}	1			0.5			
Maximum instantaneous forward voltage (Note 2) IF=10A, T _J =25°C IF=10A, T _J =125°C	V _F	0.70 0.57		0.80 0.70		0.85 0.71		
Maximum reverse current @ Rated V _R T _J =25 °C T _J =125 °C	I _R	0.1						
		15		10		6		
Voltage rate of change (Rated V _R)	dV/dt	10000						
Typical thermal resistance	R _{θJC}	3						
Operating junction temperature range	T _J	- 55 to + 150						
Storage temperature range	T _{STG}	- 55 to + 175						

Note 1 : tp = 2.0 μs, 1.0KHz

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

Document Number : DS_D1309008



EXAMPLE

PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	D
MBRF1060 C0	MBRF1060		C0		
MBRF1060 C0G	MBRF1060		C0	G	Gre
MBRF1060HC0	MBRF1060	H	C0		AEC

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1 FORWARD CURRENT DERATING CURVE

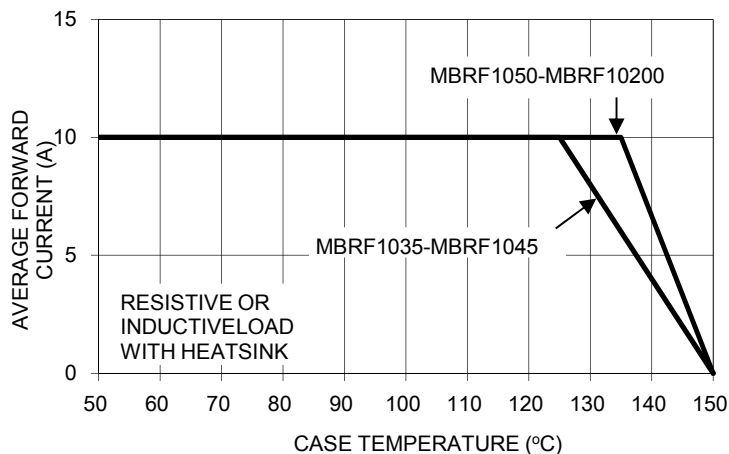


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

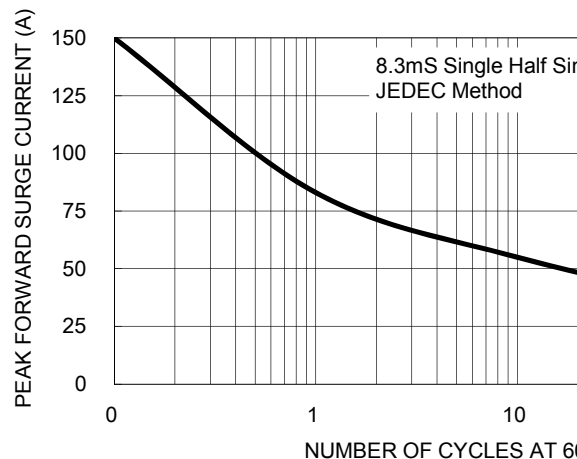


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

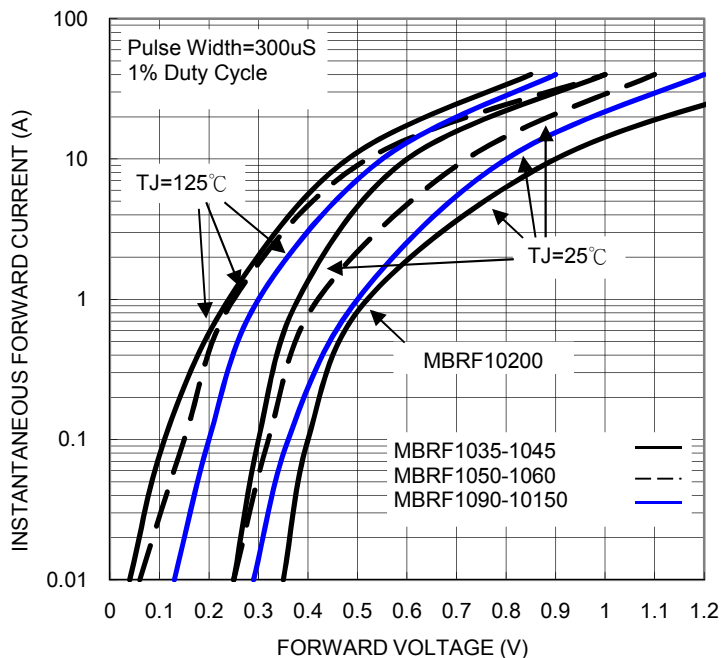
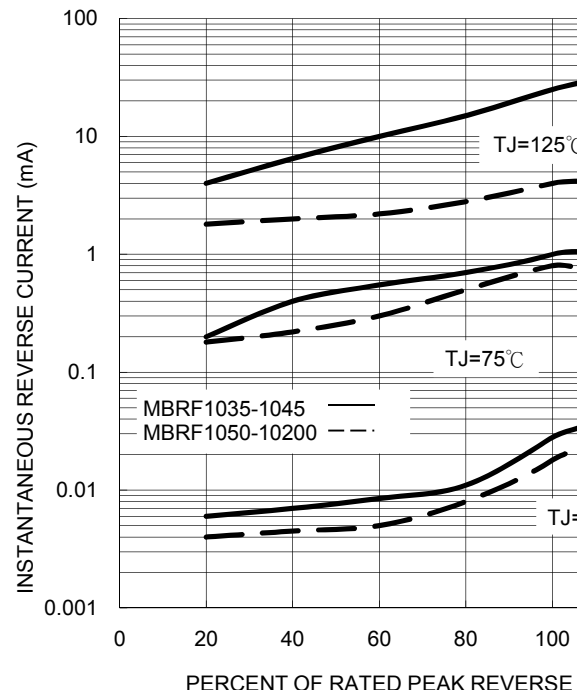
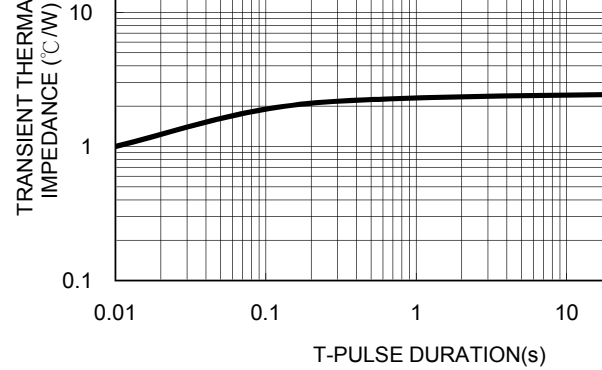
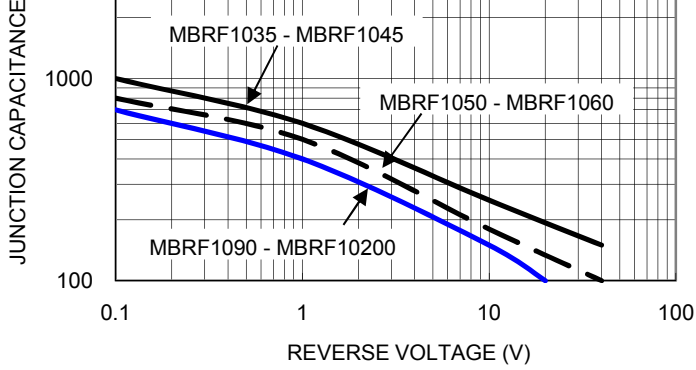
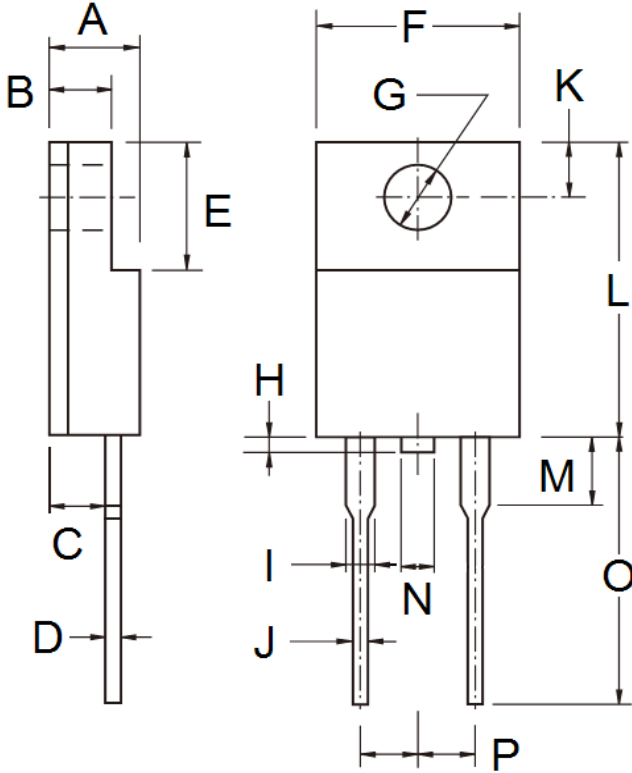


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG



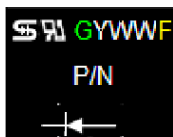


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit(mm)		Unit(inch)	
	Min	Max	Min	Max
A	4.30	4.70	0.169	0.185
B	2.50	3.10	0.098	0.122
C	2.30	2.90	0.091	0.114
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	0.00	1.60	0.000	0.063
I	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
M	-	4.10	-	0.161
N	-	1.80	-	0.071
O	12.60	13.80	0.496	0.543
P	4.95	5.20	0.195	0.205

MARKING DIAGRAM



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