

### Bridge Rectifiers Reverse Voltage-1000v Forward current-6A

#### **Features**

Glass passivated chip
High surge current capability
Ldeal for surface mounted applications
Low power loss, high efficiency
Plastic Case Material has UL Flammability



Package: MSB

Terminals:Tin Plated leads, solderable per

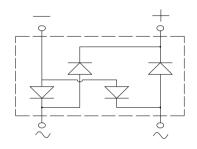
Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

**ROHS-compliant** 





### Maximum Ratings (Ta=25℃ Unless otherwise specified)

Type Number	SYMBOL	DB610F	Umit	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	1000	V	
Maximum RMS Voltage	$V_{RMS}$	700	V	
Maximum DC Blocking Voltage	$V_{DC}$	1000	V	
Maximum Average Forward Rectified Current at TL = 100 $^{\circ}$	IO <sub>(AV)</sub> 6.0		А	
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	150.0	А	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 ℃	6	300.0	А	
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	I <sup>2</sup> t	93.4	A <sup>2</sup> S	
Maximum Forward Voltage at 6.0A DC	$V_{FM}$	1.1	V	
Maximum Reverse Current TA = 25℃	IR	5		
at Rated DC Blocking Voltage TA = 100℃	IK	100	uA	
Typical Junction Capacitance	CJ	40	pF	
Typical Thermal Resistance	$R_{QJa}$	75.0	°C/W	
Operating Junction Temperature Range	T <sub>J</sub>	55to+150	$^{\circ}$	
Storage Temperature Range	T <sub>STG</sub>	55to+150	$^{\circ}$ C	

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

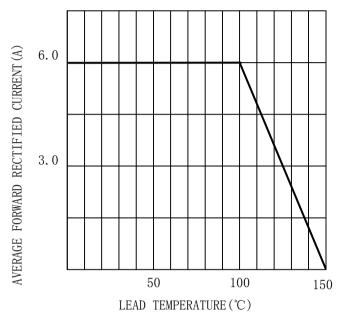


FIG. 2TYPICAL FORWARD CHARACTERISTICS

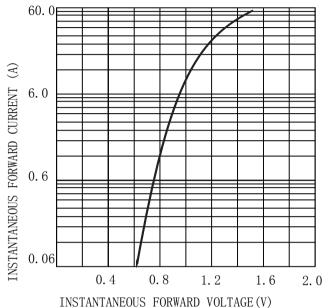


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

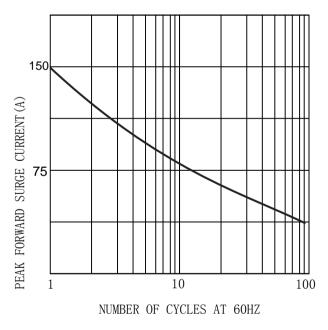
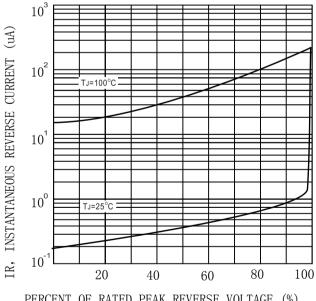


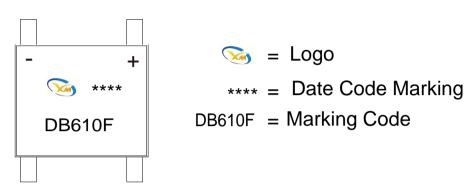
FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



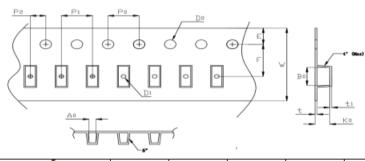
## **MARKING INFORMATION**



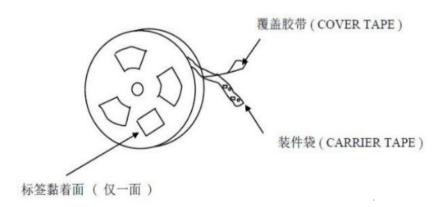
Print according to customer request

# **PACKING REQUIRMENTS**

Carrier tape packing



Specificati	Carrier	Ao	Во	Ко	Po	w	+1	Exiplain
ons	tape type	AU	ВО	KU	FU	**	11	LAIPIGIT
MSB	Anti-static	$7.0 \pm 0.10$	8.7±0.10	$1.65 \pm 0.10$	$4.00 \pm 0.10$	$16.0 \pm 0.30$	$0.28 \pm 0.05$	

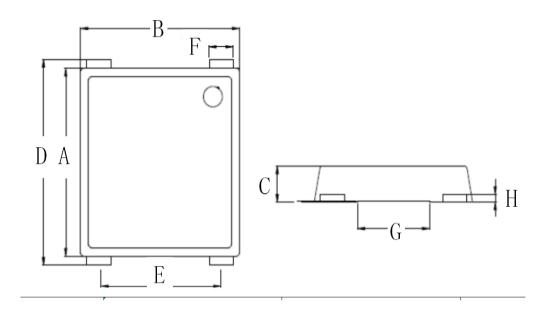


DEVICE Tape		13"Reel			
TYPE	width	Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)	
MSB	16mm	3000	6000	60000	



# Outline Dimensions

MSB



MSB					
DIM	INC HES		MM		
	MIN	MAX	MIN	MAX	
A	0.28	0. 29	7.0	7.4	
В	0.26	0. 27	6.5	6.9	
С	0.05	0.06	1.2	1.6	
D	0.32	0.33	8.1	8.5	
Е	0.19	0.21	4.9	5.3	
F	0.04	0.05	0.9	1.3	
G	0.11	0. 13	2.8	3.2	
Н	0.01	0.02	0.2	0.4	



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