

GBJ2516A

■Maximum Ratings (T_a=25 Unless otherwise specified

PARAMETER		SYMBOL	UNIT	GBJ2516A
Device marking code				GBJ2516A
Maximum Repetitive Peak Reverse Voltage		VRRM	V	1600
Maximum RMS Voltage		VRMS	V	1120
Maximum DC blocking Voltage		VDC	V	1600
Average rectified output current @60Hz sine wave, R-load,	With heatsink Tc =95	IO	A	25.0
	Without heatsink Ta =25			3.5
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25		IFSM	A	350
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25				700
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode		I²t	A²s	508
Storage temperature		Tstg		-55 ~ +150
Junction temperature		Tj		-55 ~ +150
Dielectric strength @ Terminals to case, AC 1 minute		Vdis	KV	2.5
Mounting torque @Recommend torque 5kg cm		Tor	kg cm	8

■Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJ2516A
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =12.5A	1.1
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	μA	T _j =25 T _j =125	5



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■ Thermal Characteristics $T_a=25$ Unless otherwise specified

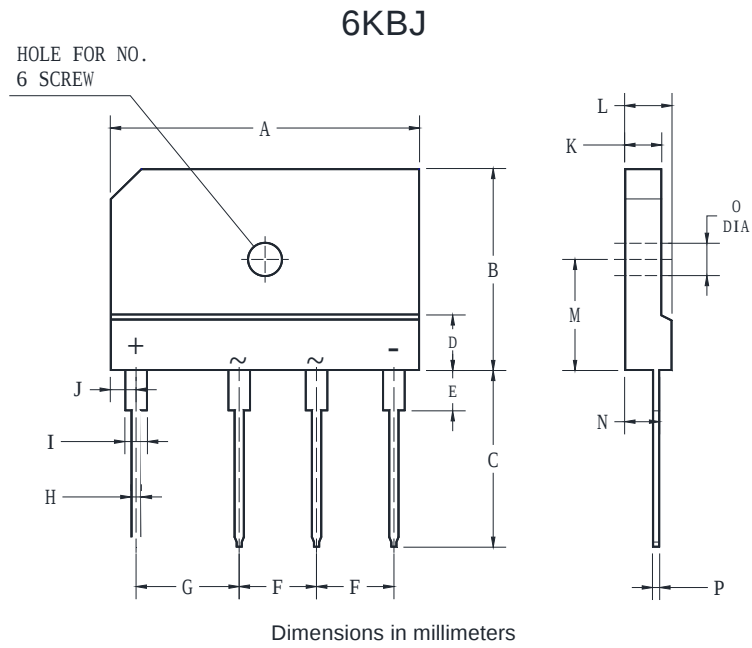
PARAMETER		SYMBOL	UNIT	GBJ2516A
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	/W	18.0
	Between junction and case, With heatsink	$R_{\theta J-C}$		1.0

Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

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■ Outline Dimensions



6KBJ		
Dim	Min	Max
A	29.7	30.3
B	19.7	20.3
C	17.0	18.0
D	4.8	5.8
E	3.8	4.2
F	7.3	7.7
G	9.8	10.2
H	0.9	1.1
I	2.0	2.4
J	2.3	2.7
K	3.4	3.8
L	4.4	4.8
M	10.8	11.2
N	3.1	3.7
O	3.1	3.4
P	0.6	0.8



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