



FEATURES

• Universal, 3 way terminals: Push-on, wrap around or solder



• High thermal conductivity package, electrically insulated case

- · Center hole fixing
- Excellent power/volume ratio
- UL E300359 approved



- Nickel plated terminals solderable using lead (Pb)-free solder; Solder Alloy Sn/Ag/Cu (SAC305); Solder temperature 260 to 275 °C
- · RoHS compliant
- Designed and qualified for industrial level

PRODUCT SUMMARY			
I _{T(AV)}	25/35 A		

DESCRIPTION

A range of extremely compact, encapsulated single phase bridge rectifiers offering efficient and reliable operation. They are intended for use in general purpose and instrumentation applications.

MAJOR RATINGS AND CHARACTERISTICS					
SYMBOL	CHARACTERISTICS	26MB-A	36MB-A	UNITS	
		25	35	A	
I _O	T _C	65	60	°C	
		400	475	А	
I _{FSM}	60 Hz	420	500		
l ² t	50 Hz	790	1130	A ² s	
1-1	60 Hz	725	1030		
V _{RRM}	Range	200 to 1200		V	
T _J		- 55 to 150		°C	

ELECTRICAL SPECIFICATIONS

VOLTAGE RATINGS					
TYPE NUMBER	VOLTAGE CODE	V _{RRM} , MAXIMUM REPETITIVE PEAK REVERSE VOLTAGE V	V _{RSM} , MAXIMUM NON-REPETITIVE PEAK REVERSE VOLTAGE V	I _{RRM} MAXIMUM AT T _J MAXIMUM	
	20	200	275		
26MBA 60 36MBA 80 100	400	500			
	60	600	725	2	
	80	800	900	2	
	100	1000	1100		
	120	1200	1300		

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FORWARD CONDUCTION							
PARAMETER	SYMBOL	TEST CONDITIONS		26MB-A	36MB-A	UNITS	
Maximum DC output current at case temperature	Io	Resistive or inductive load		25	35	А .	
		Capacitive load		20	28		
at case temperature					65	60	°C
		t = 10 ms	No voltage		400	475	A
Maximum peak, one-cycle non-repetitive forward current		t = 8.3 ms	reapplied		420	500	
	I _{FSM}	t = 10 ms	100 % V _{RRM}		335	400	
		t = 8.3 ms	reapplied	Initial T _J =	350	420	
Maximum I ² t for fusing		t = 10 ms	No voltage	T _J maximum	790	1130	- A ² s
	l ² t	t = 8.3 ms	reapplied		725	1030	
		t = 10 ms	100 % V _{RRM}		560	800	
		t = 8.3 ms	reapplied		512	730	
Maximum I ² √t for fusing	I ² √t	I^2t for time $t_x = I_2 \sqrt{t} \times \sqrt{t_x}$; $0.1 \le t_x \le 10$ ms, $V_{RRM} = 0$ V		5.6	11.3	kA²√s	
Low level value of threshold voltage	V _{F(TO)1}	(16.7 % x π x $I_{F(AV)}$ < I < π x $I_{F(AV)}$), T_J maximum		0.76	0.79	V	
High level value of threshold voltage	V _{F(TO)2}	$(I > \pi \times I_{F(AV)}), T_J$ maximum		0.92	0.96	\ \ \	
Low level forward slope resistance	r _{t1}	(16.7 % x π x $I_{F(AV)}$ < I < π x $I_{F(AV)}$), T_J maximum		6.8	5.8	mΩ	
High level forward slope resistance	r _{t2}	$(I > \pi \times I_{F(AV)}), T_J$ maximum		5.0	4.5	11152	
Maximum forward voltage drop	V _{FM}	T _J = 25 °C, I _F	_M = 40 A _{pk} (26MB)	t 400s	1.11	1.14	V
		$T_J = 25 ^{\circ}\text{C}, I_{FM} = 55 A_{pk} (36MB)$ $t_p = 400 \mu\text{s}$		1.11	1.14	V	
Maximum DC reverse current	I _{RRM}	T _J = 25 °C, per diode at V _{RRM}		$T_J = 25$ °C, per diode at V_{RRM} 10		0	μΑ
RMS isolation voltage base plate	V _{INS}	f = 50 Hz, t = 1 s		f = 50 Hz, t = 1 s 2700		00	V

THERMAL AND MECHANICAL SPECIFICATIONS					
PARAMETER	SYMBOL	TEST CONDITIONS	26MB-A	36MB-A	UNITS
Junction and storage temperature range	T _J , T _{Stg}		- 55 to	o 150	°C
Maximum thermal resistance junction to case per bridge	R _{thJC}		1.7	1.2	K/W
Maximum thermal resistance, case to heatsink	R _{thCS}	Mounting surface, smooth, flat and greased	0.2		TC/VV
Approximate weight			2	0	g
Mounting torque ± 10 %		Bridge to heatsink	2.	0	Nm



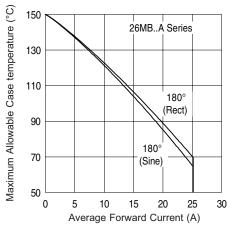


Fig. 1 - Current Ratings Characteristics

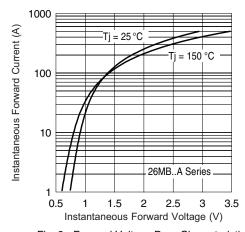


Fig. 2 - Forward Voltage Drop Characteristics Maximum Allowable Ambient Temperature

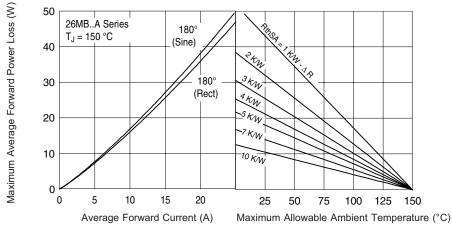


Fig. 3 - Total Power Loss Characteristics

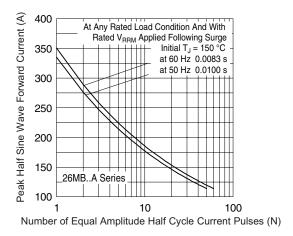


Fig. 4 - Maximum Non-Repetitive Surge Current

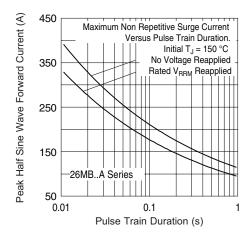


Fig. 5 - Maximum Non-Repetitive Surge Current



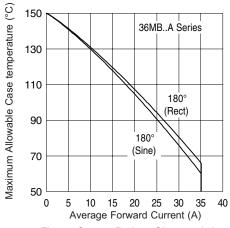


Fig. 6 - Current Ratings Characteristics

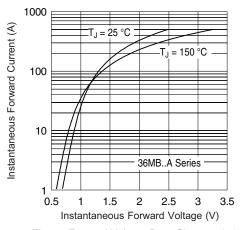


Fig. 7 - Forward Voltage Drop Characteristics

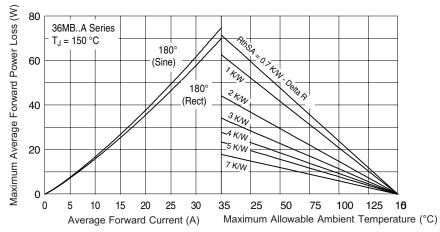


Fig. 8 - Total Power Loss Characteristics

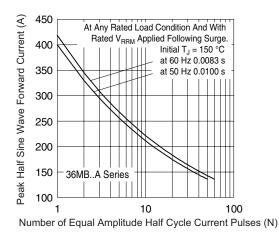


Fig. 9 - Maximum Non-Repetitive Surge Current

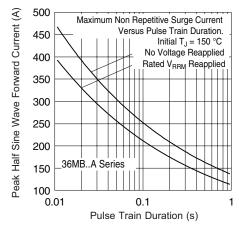
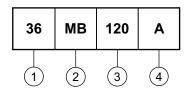


Fig. 10 - Maximum Non-Repetitive Surge Current



ORDERING INFORMATION TABLE





- Current rating code — 26 = 25 A (average) 36 = 35 A (average)

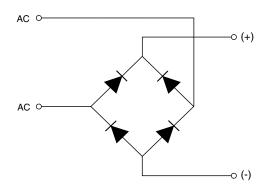
2 - Circuit configuration:

MB = Single phase european coding

Voltage code x 10 = V_{RRM}Diode bridge rectifier:

A = 26 MB, 36 MB series

CIRCUIT CONFIGURATION



LINKS TO RELATED DOCUMENTS			
Dimensions	http://www.vishay.com/doc?95326		



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