

■ Features

- Glass passivated chip
- Low reverse leakage current
- High surge current capability
- Fast reverse recovery time

■ Applications

- General purpose use in AC/DC bridge full wave rectification

■ Mechanical Data

- Case: ABS
- Polarity symbols being marked on body
- Molding compound meets UL 94V-0 flammability rating
- RoHS-compliant, Solder plated, solderable per MIL-STD-750, Method 2026



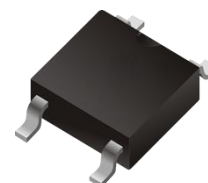
Reverse Voltage

50-1000 V

Forward Current

2.0 A max

Appearance Image



■ Marking

- ABS2xx(05~10)

■ Maximum Ratings @ Ta = 25°C unless otherwise noted

PARAMETER	SYMBOL	UNIT	RABS205	RABS21	RABS22	RABS24	RABS26	RABS28	RABS210
Repetitive peak reverse voltage	V _{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS voltage	V _{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V _{DC}	V	50	100	200	400	600	800	1000
Maximum average output current@60Hz sine wave, resistance load	I _{F(AV)}	A	2.0						
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I _{FSM}	A	60						
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	120						
Current squared time @1ms≤t<8.3ms T _j =25°C, Rating of per diode	I ² t	A ² S	14.94						
Maximum reverse recovery time	T _{rr}	ns	150				250	500	
Storage temperature	T _{stg}	°C	-55~+150						
Junction temperature	T _j	°C	-55~+150						

■ Electrical Characteristics @ Ta = 25°C unless otherwise noted

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	RABS205	RABS21	RABS22	RABS24	RABS26	RABS28	RABS210
Maximum instantaneous forward voltage	$I_F=1.0A$	V_F	V	1.3						
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}$, Tj=25°C	I_R	μA	5						
	$V_R=V_{DC}$, Tj=100°C	I_R		100						

■ Characteristic Curve (Typical)

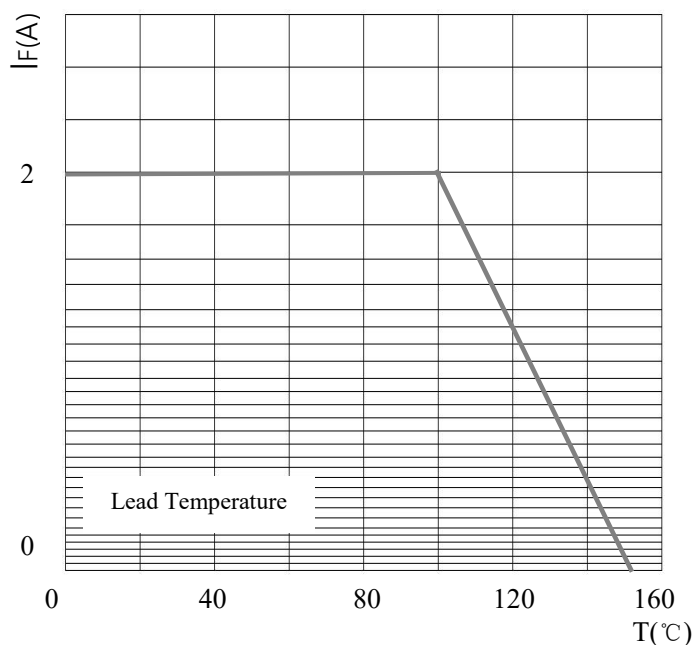


FIG1. Derating Curve For Output Rectified Current

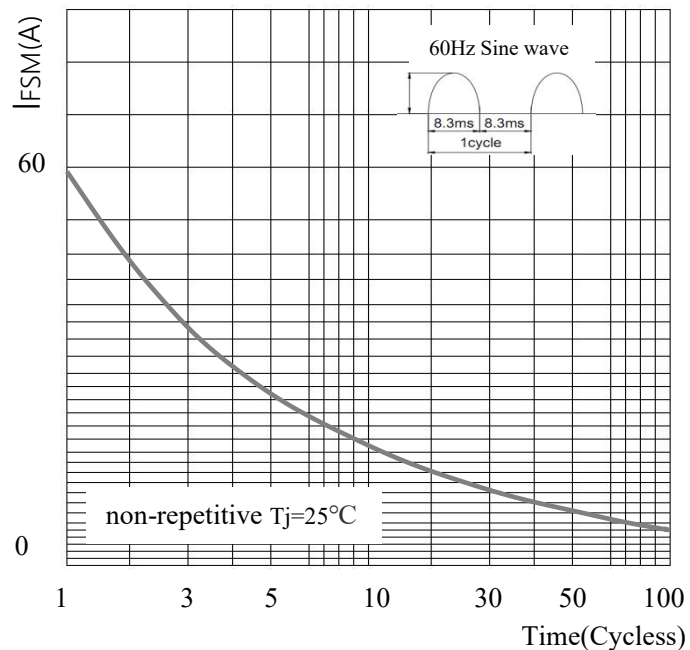


FIG2. Surge Forward Current Capability

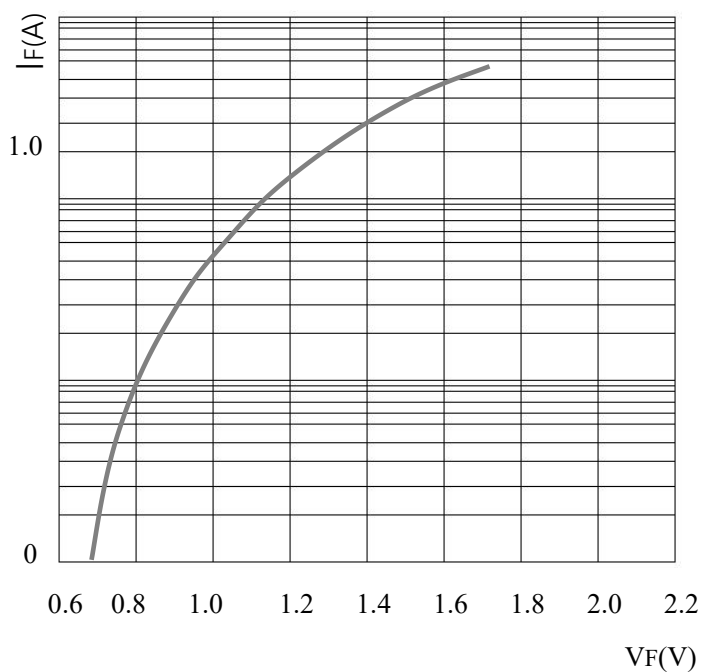


FIG3. Typical Forward Characteristics

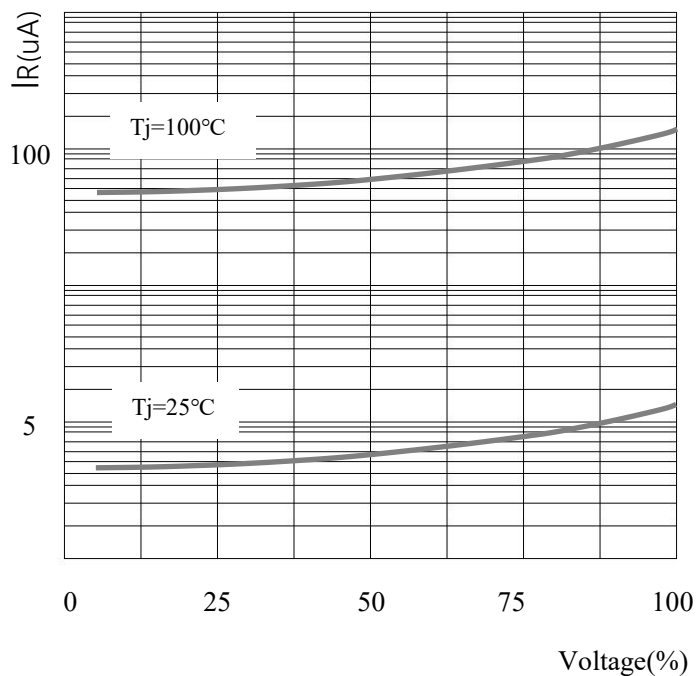
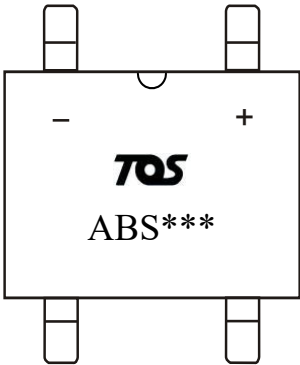


FIG4. Typical Reverse Characteristics

■ **Marking and packet information**



ABS***: Product Type Code **TOS**: Brand Loge

Packaging information	
Reel	5000PCS
Carton	100000PCS
Reel Size	13"

■ **ABS Package outline dimensions**

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.25	1.5	0.049	0.059
A1	-	0.2	-	0.008
B	3.9	4.1	0.126	0.141
B1	0.5	0.8	0.02	0.031
C	0.15	0.35	0.006	0.014
D	4.8	5.1	0.197	0.201
E	4.2	4.6	0.165	0.181
F	0.3	0.8	0.012	0.031
G	6.2	7.0	0.244	0.275

The diagram illustrates the package outline dimensions for the ABS Series bridge rectifier. It includes three views: a top view, a side view, and a cross-sectional view. The top view shows dimensions D (width), E (height), B (pin pitch), and B1 (pin width). The side view shows dimension G (height). The cross-sectional view shows dimensions A (package thickness), A1 (lead thickness), C (lead width), and F (lead spacing).

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