

■ **Features**

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

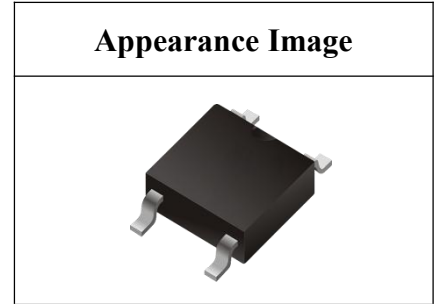
Reverse Voltage 50-1000 V
Forward Current 2.0 A max

■ **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



■ **Marking**

- RABS2xxA(05~10)

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

PARAMETER	SYMBOL	UNIT	RABS205A	RABS21A	RABS22A	RABS24A	RABS26A	RABS28A	RABS210A	
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	70							
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	140							
Current squared time @1ms≤t<8.3ms Tj=25°C, Rating of per diode	I^2t	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	RABS205A	RABS21A	RABS22A	RABS24A	RABS26A	RABS28A	RABS210A
Maximum instantaneous forward voltage	$I_F=1.0A$	V_F	V	1.3						
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}, T_j=25°C$	I_R	μA	5						
	$V_R=V_{DC}, T_j=100°C$	I_R		100						

■ **Characteristic Curve (Typical)**

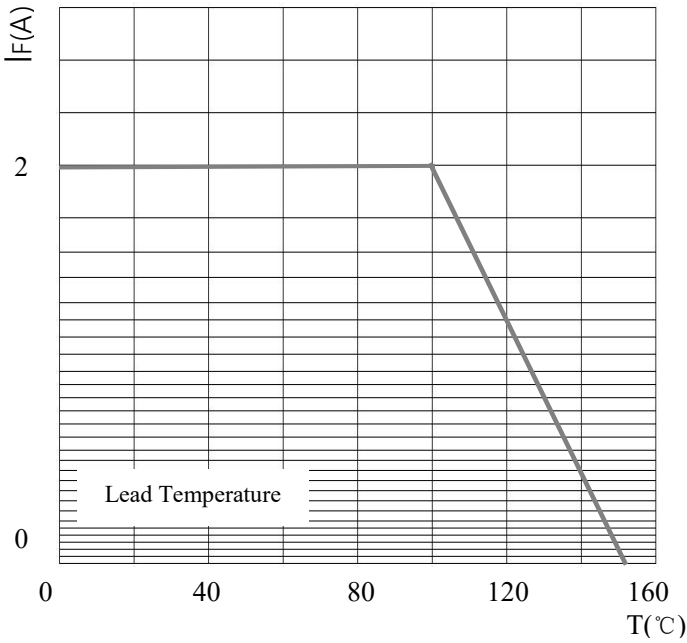


FIG1. Derating Curve For Output Rectified Current

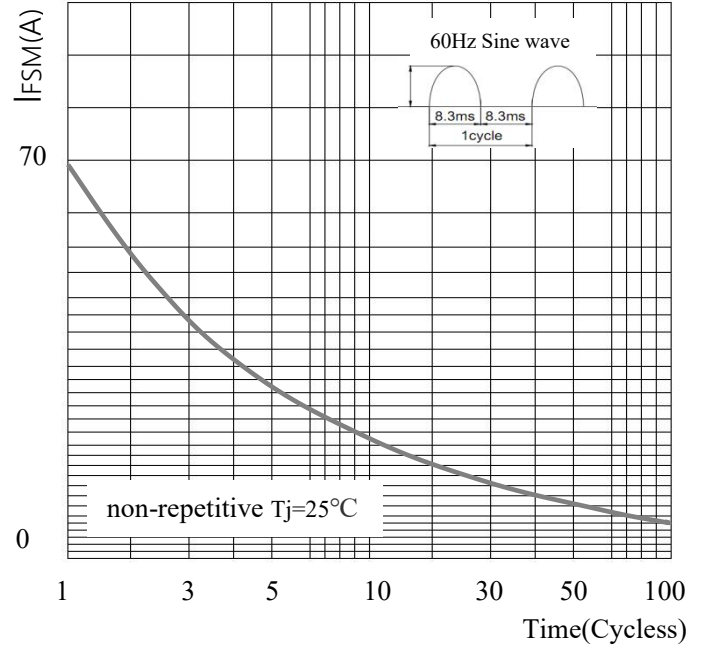


FIG2. Surge Forward Current Capability

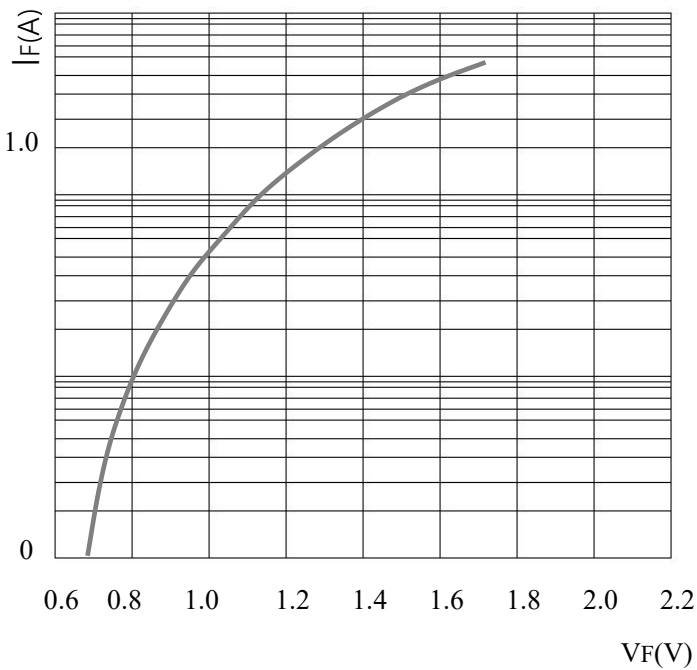


FIG3. Typical Forward Characteristics

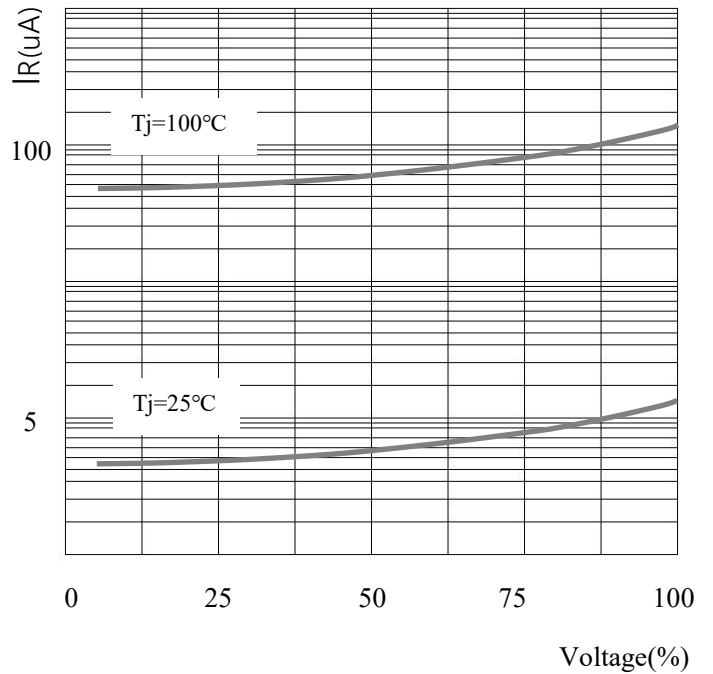
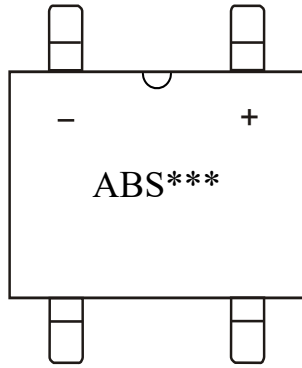


FIG4. Typical Reverse Characteristics

■ **Marking and packet information**



Packaging information	
Reel Quantity	5000PCS
Carton Quantity	100000PCS
Reel Size	13"
Identification	TQS

■ **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

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