



Schottky Diodes
Reverse Voltage-60v
Forward current- 6A

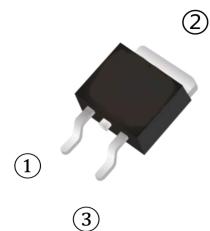
Features

Schottky chip

Ideal for surface mounted applications

Low forward voltage drop, Low power loss, high efficiency

Plastic Case Material has UL Flammability



TO-252

Mechanical Data

Package: TO-252

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°C Unless otherwise)

Type Number	SYMBOL	MBR660DS	Umit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Rectified Current at TL = 100 °C	$I_{O(AV)}$	6.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	100.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		200.0	A
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I^2t	49.8	A^2S
Maximum Forward Voltage at 6.0A DC	V_{FM}	0.7	V
Maximum Reverse Current TA = 25 °C at Rated DC Blocking Voltage TA = 125 °C	IR	0.1	mA
		20	mA
Typical Thermal Resistance Between junction to board	R_{QJB}	50	°C/W
	R_{QJC}	2.0	
Operating Junction Temperature Range	T_J	−55 to +150	°C
Storage Temperature Range	T_{STG}	−55 to +150	°C



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

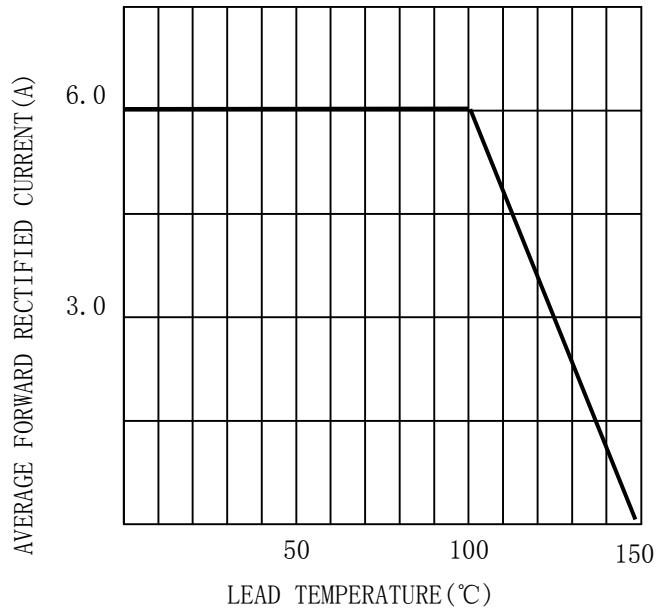


FIG. 3 MAXIMUM NON-REPETITIVE SURGE CURRENT

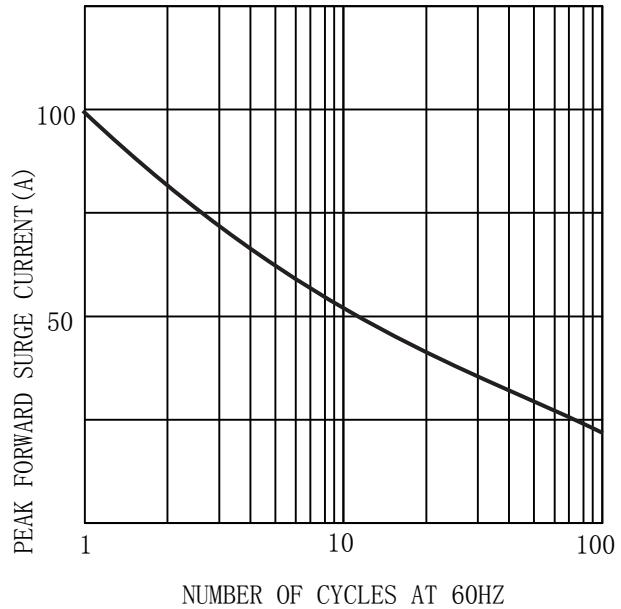


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

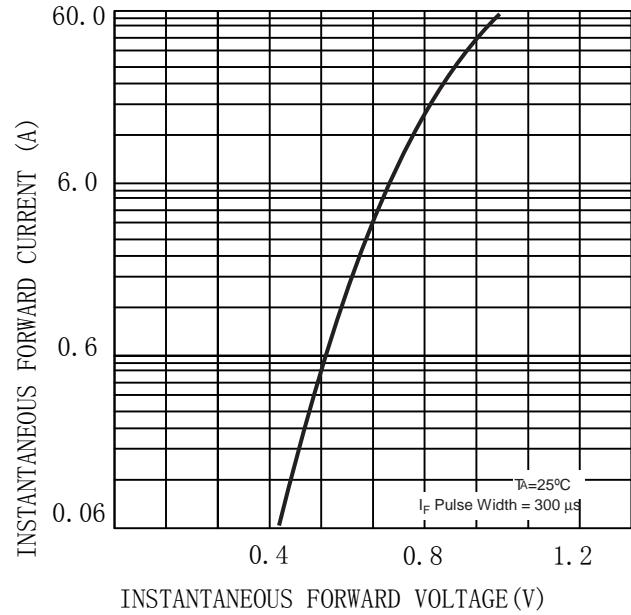
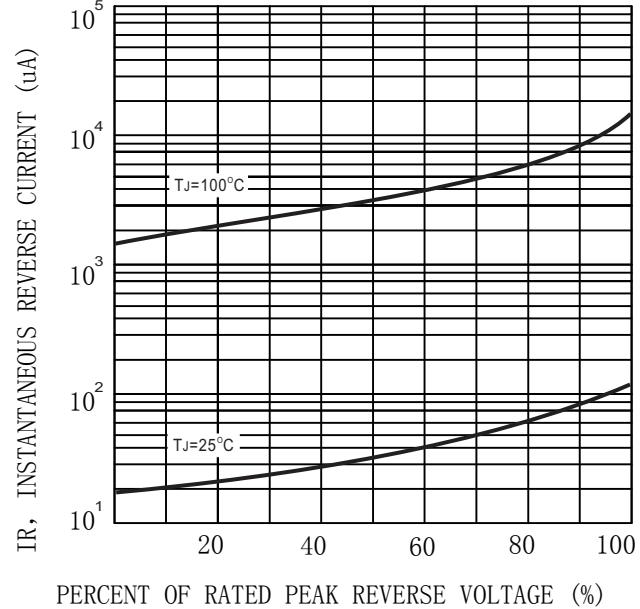


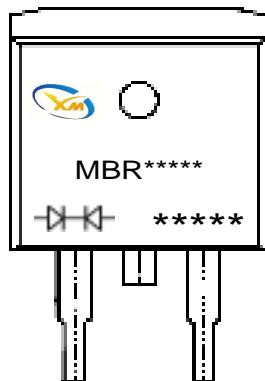
FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION

TO-252/DS



- = Polar line
- XM = Logo
- ***** = Date Code Marking
- MBR***** = Marking Code

Date Code Marking

A	001	Example: January 2023 order number is 001, period A001
Year/month code	Order serial number	January 2025 Order number is 001, period A001

Period code year distinction					
2023/2024	2025/2026	2027/2028	2029/2030	2031/2032	remark
no	first	second	tertius	fourth	Dot above corresponding character

Period code month code mapping table												
month	1	2	3	4	5	6	7	8	9	10	11	12
Single year (Example 2023)	A	B	C	D	E	F	G	H	I	J	K	L
Biennial (example 2024)	M	N	O	P	Q	R	S	T	U	V	W	X



Package Outline Dimensions millimeters

DIM	INCHES		MM		NOTE
	min	max	min	max	
A	0.25	0.27	6.3	6.9	
B	0.23	0.25	5.8	6.4	
C	0.08	0.10	2.1	2.5	
D	0.35	0.43	9.0	11.0	
E	0.21	0.22	5.3	5.5	
a	0.08	0.10	2.1	2.5	
b	0.06	0.06	1.4	1.6	
c	0.02	0.03	0.6	0.8	
d	0.02	0.02	0.4	0.6	
e	0.02	0.02	0.4	0.6	

Important Statements and disclaimers.

Do not copy or modify file information without permission.

Xumao Micro reserves the right to modify this document and its products.

Specifications are available without prior notice. Customer shall obtain and confirm the latest product information and specifications prior to final design, purchase or use.

Xumao Micro does not assume any implied warranties, including warranties of fitness for special purposes, non-infringement and merchantability.

The products shown here are not designed and licensed for demanding equipment at a level of reliability or for human life and any life-saving related applications or life-sustaining, such as medical devices, transportation equipment, aerospace machinery, and so on. Customers who use or sell these products for such applications do so at their own risk.

As Xumao Micro uses batch number as tracking benchmark, please provide batch number for tracking in case of exception.