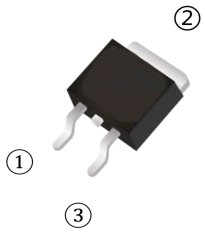
Schottky Diodes
Reverse Voltage-60v
Forward current-30A



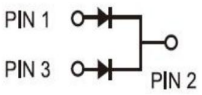
TO-252

Features

Schottky chip
Ldeal for surface mounted applications
Low forward voltage drop, Low power loss, high efficiency
Plastic Case Material has UL Flammability

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℃ Unless otherwise)

Type Number	SYMBOL	MBR3060DS	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 ℃	$IO_{(AV)}$	30.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	150.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃		300.0	A
Current squared time @1ms≤t8.3≤ms Tj=25℃， Rating of per diode	I^2t	62.25	A^2S
Maximum Forward Voltage at 15.0A DC	V_{FM}	0.85	V
Maximum Reverse Current TA = 25℃	IR	0.1	mA
at Rated DC Blocking Voltage TA = 125℃		20	mA
Typical Thermal Resistance Between junction to board	R_{QJB}	50	℃/W
	R_{QJC}	2.0	
Operating Junction Temperature Range	T_J	—55to+150	℃
Storage Temperature Range	T_{STG}	—55to+150	℃

FIG.1MAXIMUM AVERAGE FORWARD CURRENT DERATING

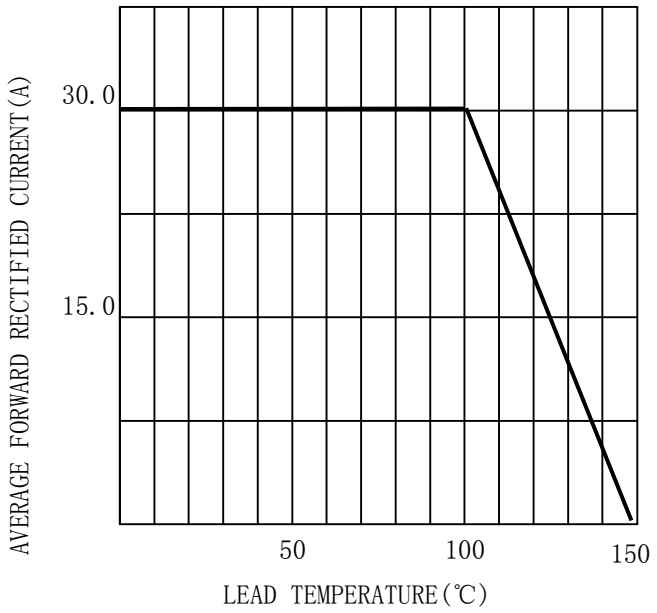


FIG.2TYPICAL FORWARD CHARACTERISTICS

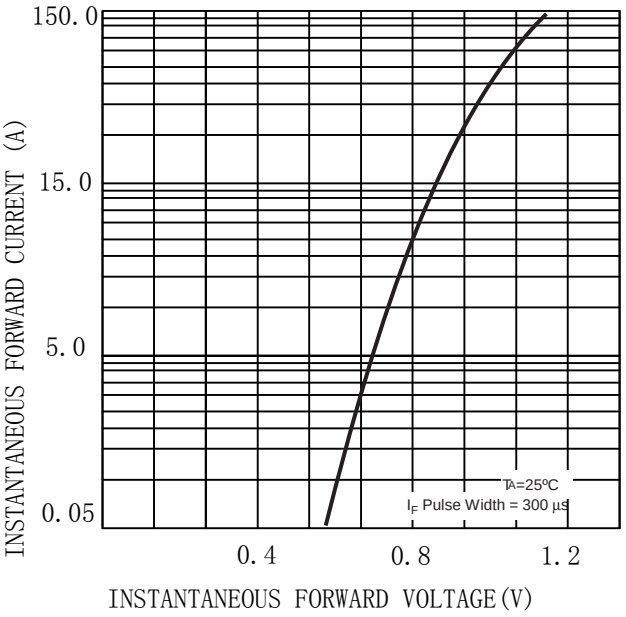


FIG.3MAXIMUM NON-REPEITIVE SURGE CURRENT

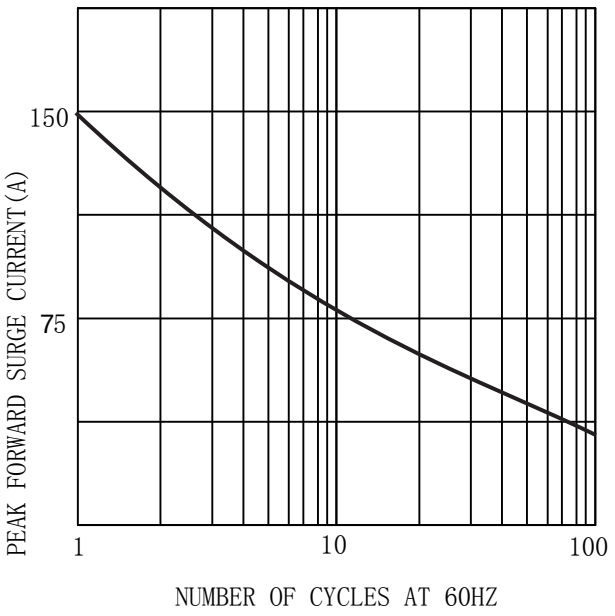
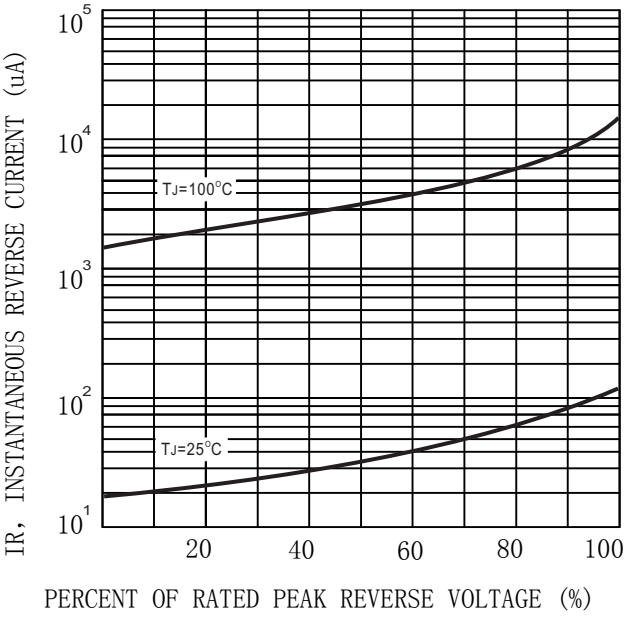
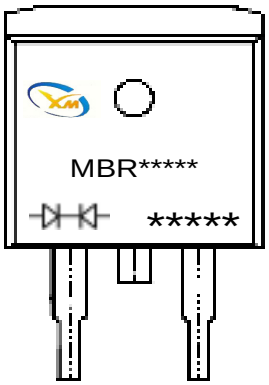


FIG. 4 TYPICAL REVERSE CHARACTERISTICS(per element)



MARKING INFORMATION

TO-252/DS



= Polar line

= Logo

***** = Date Code Marking

MBR***** = Marking Code

Date Code Marking

A 001

Year/month code

Order serial number

Example: January 2023 order number is 001, period A001

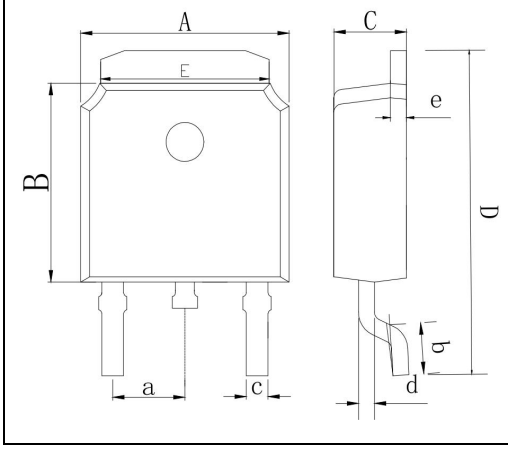
January 2025 Order number is 001, period Ȧ001

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

eriod 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

TO-252DS



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	

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