MBR1060DS

Schottky Diodes Reverse Voltage-60v Forward current-10A

Features

Schottky chip

Ldeal for surface mounted applications

Low forward voltage drop, Low power loss, high efficiency

Plastic Case Material has UL Flammability

1 3

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

PIN 3 PIN 2

Maximum Ratings (Ta=25℃ Unless otherwise)

Type Number	SYMBOL	MBR1060DS	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)	10.0	А	
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	120.0	А	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	ii Siii	240.0	А	
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	49.8	A ² S	
Maximum Forward Voltage at 5.0A DC	V _{FM}	0.7	V	
Maximum Reverse Current TA = 25 ℃	ID	0.1	mA	
at Rated DC Blocking Voltage TA = 125 ℃	IR -	20	mA	
Typical Thormal Decistones Potygon junction to heard	R _{QJB}	50		
Typical Thermal Resistance Between junction to board	R _{QJC}	2.0	℃/W	
Operating Junction Temperature Range	T _J	55to+150	$^{\circ}$	
Storage Temperature Range	T _{STG}	-55to+150	$^{\circ}$	

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

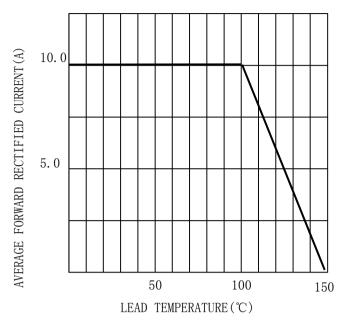


FIG. 2TYPICAL FORWARD CHARACTERISTICS

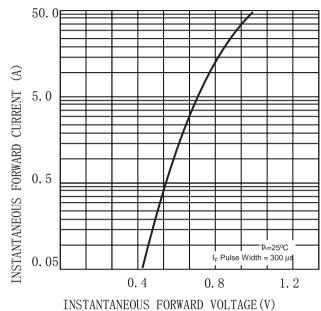


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

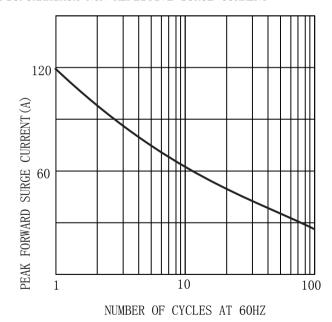
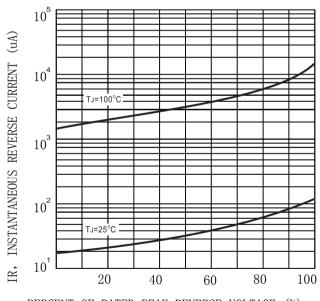


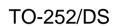
FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)

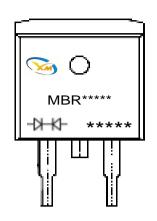


PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



MARKING INFORMATION





= Polar line

= Logo

= Date Code Marking

= Marking Code

Date Code Marking

<u>A</u>

001

Example: January 2023 order number is 001, period A001

Year/month code Order serial number

January 2025 Order number is 001, period Å001

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)	Α	В	С	D	E	F	G	Н	I	J	К	L
Biennial (example 2024)	М	N	0	Р	Q	R	S	Т	U	V	W	Х

Package Outline Dimensions millimeters

TO-252DS								
			INCHES		MM		NOTE	
A	C	DIM	min	max	min	max	NOTE	
F		A	0.25	0.27	6.3	6.9		
	e	В	0.23	0.25	5.8	6.4		
		С	0.08	0.10	2. 1	2.5		
B		D	0.35	0.43	9.0	11.0		
	D	Е	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		
	0	С	0.02	0.03	0.6	0.8		
	d'	d	0.02	0.02	0.4	0.6		
		е	0.02	0.02	0.4	0.6		

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