

MBK22S THRU MBK220S

2A Schottky Barrier Surface Mount Bridge Rectifiers

■ Features

- Metal semiconductor junction with guard ring.
- · Silicon epitaxial planar chips.
- Very low forward drop down voltage.
- For use in low voltage, high efficiency inverters, free wheeling, and polarity protection applications.
- · Lead-free parts meet RoHS requirments.
- Suffix "G" indicates Halogen-free part, ex.MBK22SG.
- UL recognized file # E321971

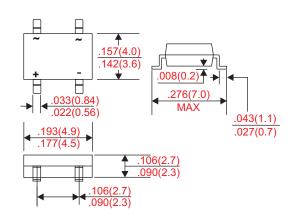
■ Mechanical data

Epoxy:UL94-V0 rated flame retardant
Case: Molded plastic, MDS / TO-269AA
Terminals: Solder plated, solderable per

Polarity: marked on bodyWeight: 0.04 ounce, 1.0 gram

Outline

MDS(TO-269AA)



Dimensions in inches and (millimeters)

■ Maximum ratings and electrical characteristics

MIL-STD-750, Method 2026

Rating at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current		Io			2.0	Α
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			50	Α
Reverse current	$V_R = V_{RRM} T_A = 25^{\circ}C$				0.5	mA
	$V_R = V_{RRM} T_A = 100^{\circ}C$	I _R			20	
Storage temperature		T _{stg}	-55		+175	°C

Symbol	Marking code	Max. repetitive peak reverse voltage V _{RRM} (V)	Max. RMS voltage V _{RMS} (V)	Max. DC blocking voltage V _R (V)	Max. forward voltage @2A, $T_A = 25^{\circ}C$ $V_F(V)$	Operating temperature T _J (°C)	
MBK22S	MBK22S	20	14	20	0.45	- -55~+150	
MBK24S	MBK24S	40	28	40	0.50		
MBK26S	MBK26S	60	42	60	0.70		
MBK210S	MBK210S	100	70	100	0.81		
MBK215S	MBK215S	150	105	150	0.87	-55 ~ +175	
MBK220S	MBK220S	200	140	200	0.90		

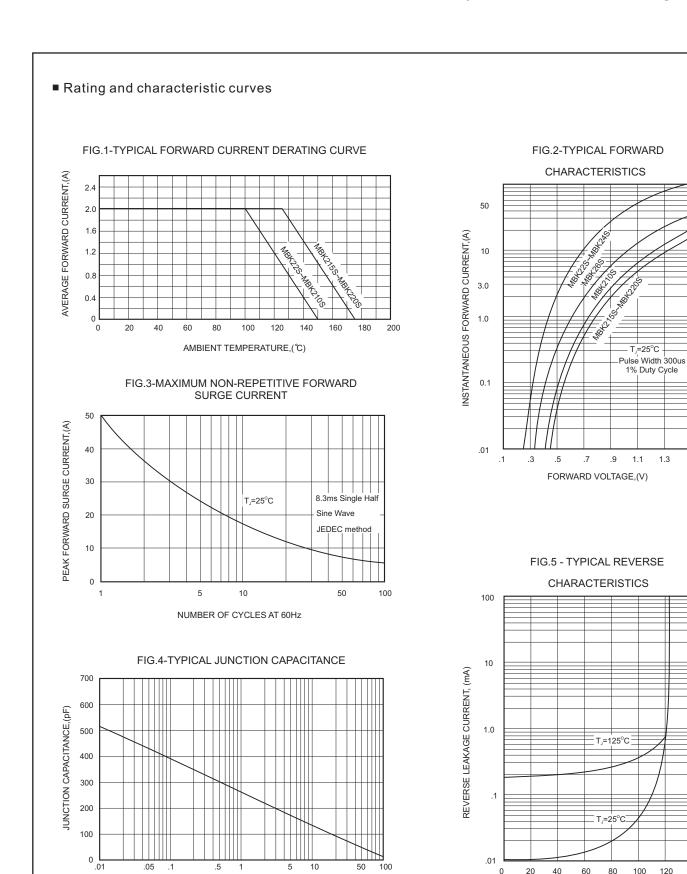
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PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

1.3

1.5

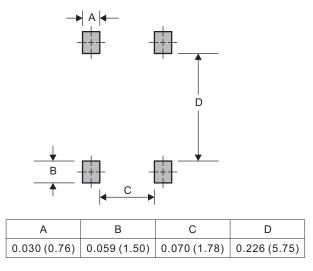
REVERSE VOLTAGE,(V)



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■ MDS(TO-269AA) foot print



Dimensions in inches and (millimeters)

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