MSKSEMI















ESD

TVS

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Broduct data sheet



Features

Ideal for printed circuit board

Reliable low cost construction utilizing molded plastic technique

High temperature soldering guaranteed: 260°/10 seconds at 5 lbs.,

(2.3kg) tension

Small size, simple installation

High surge current capability

Mechanical Data

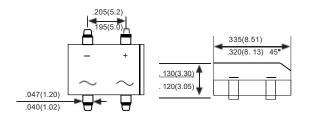
Case: JEDEC DBS Molded plastic body

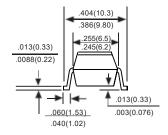
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body

Mounting Position: Any

Weight: 0.02 ounce, 0.4 grams





Dimensions in inches and (millimeters)

REEL SPECIFICATION

P/N	PKG	QTY
DB301S-DB307S	DBS	1500

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unlss otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	DB301S	DB302S	DB303S	DB304S	DB305S	DB306S	DB307S	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at T_A =40°C	l _{F(AV)}				3.0				А
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	85				Α			
Maximum instantaneous forward voltage drop per leg at 3.0A	VF	1.1					V		
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	l _R	10 500				pA pA			
I2t Rating for Fusing (t<8.3ms)	l2 t 10.4			A ₂ s					
Operating temperature range (Note1)	Cı	25						pF	
Typical Thermal Resistance (Note2)	Reja	110						°C/W	
Operating temperature range	TJ	-55 to +150						°C	
storage temperature range	Тѕтс			-:	55 to +15	0			°C

NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

 $2. Thermal\ resistance\ from\ junction\ to\ ambient\ mounted\ on\ P.C.B. with 0.5*0.5" (13*13\,mm)\ copper\ pads.$



Ratings And Characteristic Curves

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

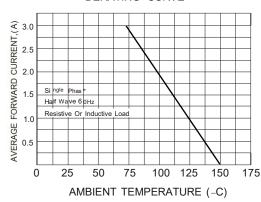


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

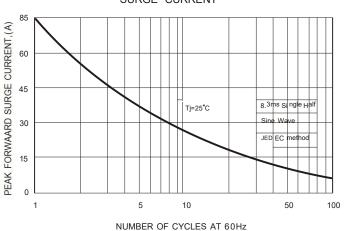


FIG. 3-TYPICAL FORWARD

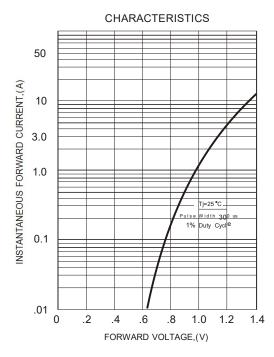
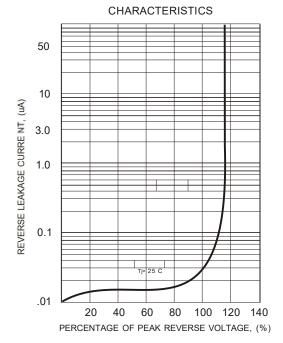


FIG.4-TYPICAL REVERSE





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