

DESCRIPTION

The DB201S~DB207S are available in DBS package.

FEATURES

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0
- Available in DBS package

ORDERING INFORMATION

Package Type	Part Number				
DBS	DB201S				
	DB202S				
	DB203S				
	DB204S				
	DB205S				
	DB206S				
	DB207S				
Note	SPQ: 1,500pcs/Reel				
AiT provides all RoHS Compliant Products					

MECHANICAL DATA

Case: DBS, molded plastic Terminals: plated leads solderable per MIL-STD-202, Method 208 Polarity: as marked on case Mounting position: Any Marking: type number



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%.

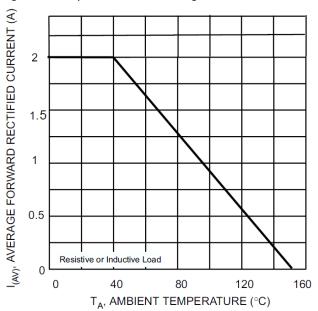
Parameter		Symbol	DB201S	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S	Unit
Peak Repetitive Reverse	Voltage	V _{RRM}								
Working Peak Reverse Voltage		VRWM	50	100	200	400	600	800	1000	V
DC Blocking Voltage		VDC								
RMS Reverse Voltage		VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current ^{NOTE1} @T _A =40°C		lo	2.0							А
		10	Z.U							A
Non-Repetitive Peak Forward										
Surge Current 8.3ms Single Half		Irou	60							А
Sine-Wave Superimposed on		IFSM								
Rated Load (JEDEC Method)										
Forward Voltage per element @I⊧=2.0A		V _{FM}	1.1							V
		VFM								
Peak Reverse Current at Rated DC Blocking	T _A =25°C	- I _R	5.0 500							μA
Voltage	T _A =125°C									
Typical Junction Capacitance per leg ^{NOTE2}		CJ	25							۳Ē
										pF
Typical Thermal Resistance per leg		R _{θJA}	40							°C/W
		R _{0JL}	15							°C/W
Operating and Storage Temperature Range		Τ. Τ	-55~150							°C
		T _J ,T _{STG}		-55~150						

NOTE1: Mounted on glass epoxy PC board with 1.3mm² solder pad.

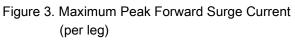
NOTE2: Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



TYPICAL PERFORMANCE CHARACTERISTICS







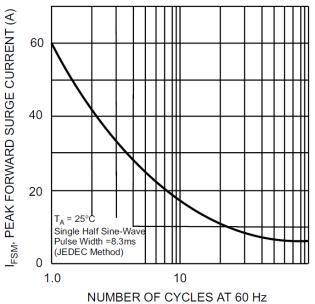


Figure 2. Typical Forward Characteristics (per leg)

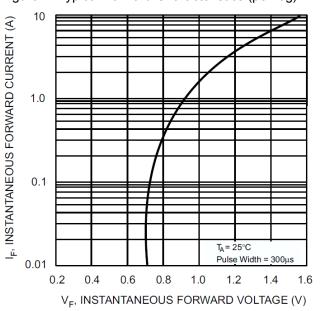
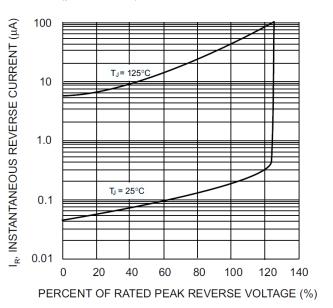


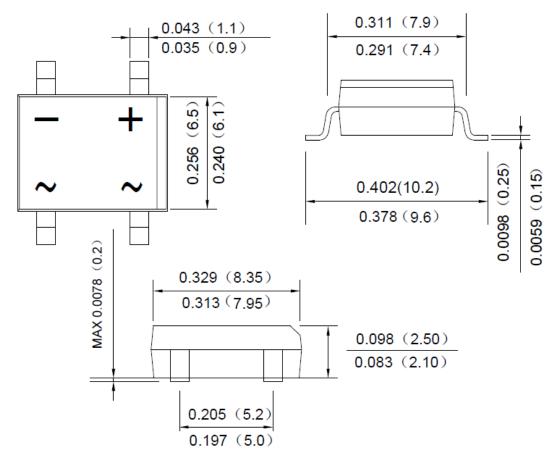
Figure 4. Typical Reverse Characteristics (per element)





PACKAGE INFORMATION

Dimension in DBS Package (Unit: inches (mm))





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