



## DESCRIPTION

The DB202S~DB207S is available in DBS Package

## ORDERING INFORMATION

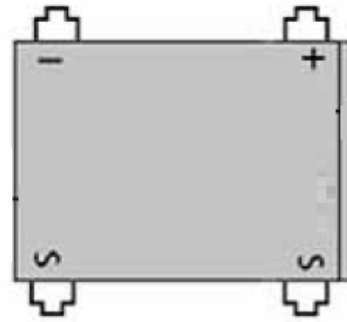
Package Type	Part Number
DBS	DB202S
	DB203S
	DB204S
	DB205S
	DB206S
	DB207S

AiT provides all RoHS Compliant Products

## FEATURES

- Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- High current capacity with small package
- Glass passivated chip junctions
- Superior thermal conductivity
- High IFSM
- RoHS Compliant
- Available in DBS Package

## PIN DESCRIPTION





## ELECTRICAL CHARACTERISTICS

@ 25°C ambient temperature unless otherwise specified

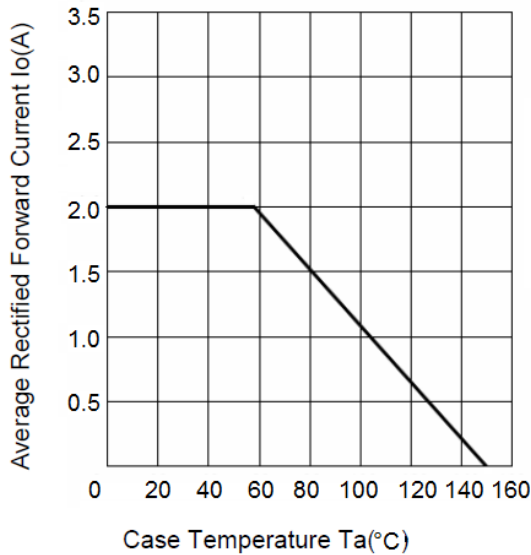
Parameter	Symbol	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S	Unit
Maximum repetitive voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	V
Maximum DC reverse current $T_A=25^\circ\text{C}$	$I_R$	5						$\mu\text{A}$
at rated DC blocking voltage $T_A=125^\circ\text{C}$		500						
Average rectified forward current 60Hz Sine wave Resistance load with $T_A=55^\circ\text{C}$	$I_O$	2						A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	75						A
Max instantaneous forward voltage at 2.0A	$V_F$	1.1						V
Maximum thermal on P.C.B. without heat-sink	$R_{\theta JA}$	40						$^\circ\text{C/W}$
Operating junction temperature	$T_J$	150						$^\circ\text{C}$
Storage temperature	$T_{STG}$	-55~150						$^\circ\text{C}$



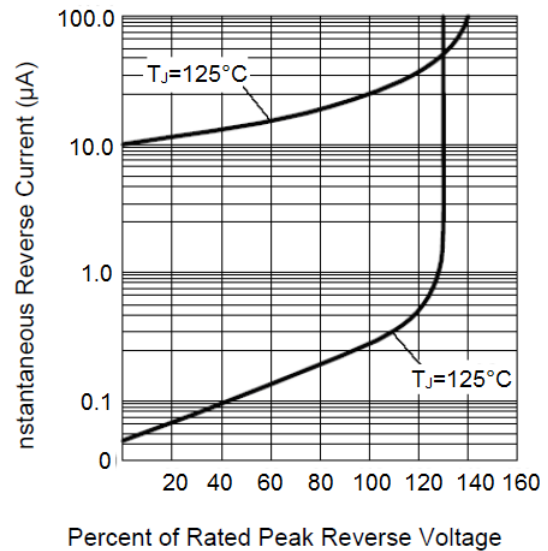
## TYPICAL CHARACTERISTICS

$T_A = 25^\circ\text{C}$ , unless otherwise noted

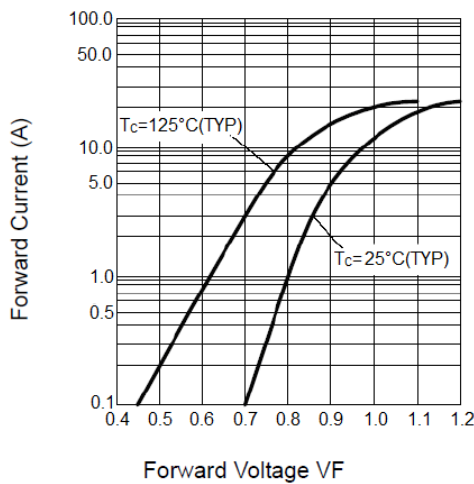
### 1. Derating Curve



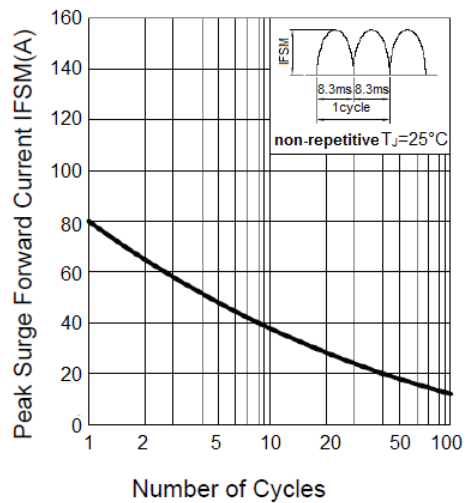
### 2. Typical Reverse Characteristics



### 3. Forward Voltage



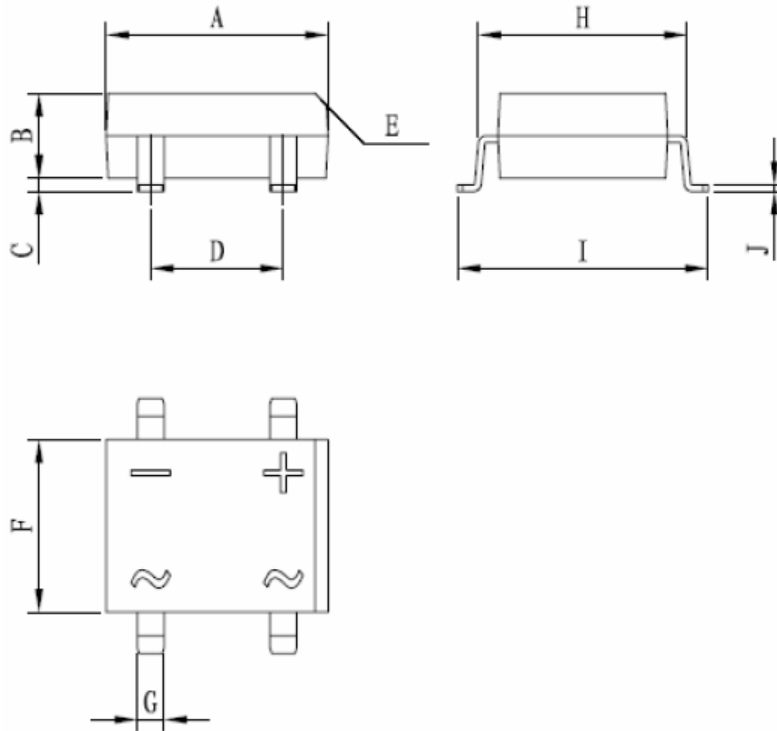
### 4. Peak Surge Forward Capability





**PACKAGE INFORMATION**

Dimension in DBS (Unit: mm)



DIM	MILLIMETERS	
	MIN	MAX
A	8.30	8.70
B	3.30	3.70
C	0.10	0.50
D	4.78	5.38
E	1*45°	
F	6.30	6.70
G	0.92	1.12
H	7.70	8.30
I	9.10	10.10
J	0.15	0.35



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