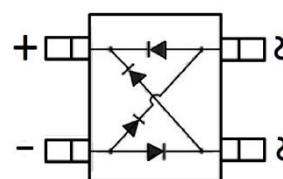


BRIDGE RECTIFIER
FEATURES

- Low Reverse voltage leakage current
- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High forward surge current capability
- Small Surface Mount device


DBS

MECHANICAL DATA

- Case: DBS
- Case Material: Molded Plastic. UL flammability
- Classification Rating: 94V-0
- Weight: 0.40 grams (approximate)

MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	DB201S	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S	Unit
Repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
DC Reverse Voltage	V_R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Mean rectifying current	I_F	2.0							A
Non-Repetitive Peak Forward Surge Current @ $t = 8.3 \text{ ms}$	I_{FSM}	60							A
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	68							$^\circ\text{C/W}$
Junction Temperature	T_J	-55 ~ +150							$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150							$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min	Max	Unit	Conditions
Forward voltage	V_F		1.1	V	$I_F = 1\text{A}$
Reverse current $T = 25^\circ\text{C}$	I_R		10	μA	$V_R = V_{RRM}$
Reverse current $T = 125^\circ\text{C}$	I_R		500	μA	$V_R = V_{RRM}$
Junction capacitance	C_J		25	pF	$V = 4V_{DC}, f = 1\text{MHz}$

BRIDGE RECTIFIER

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

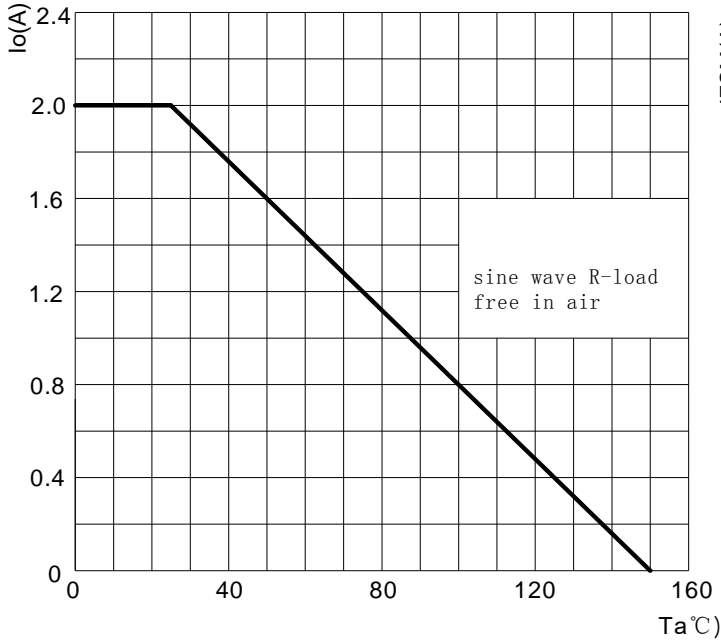


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

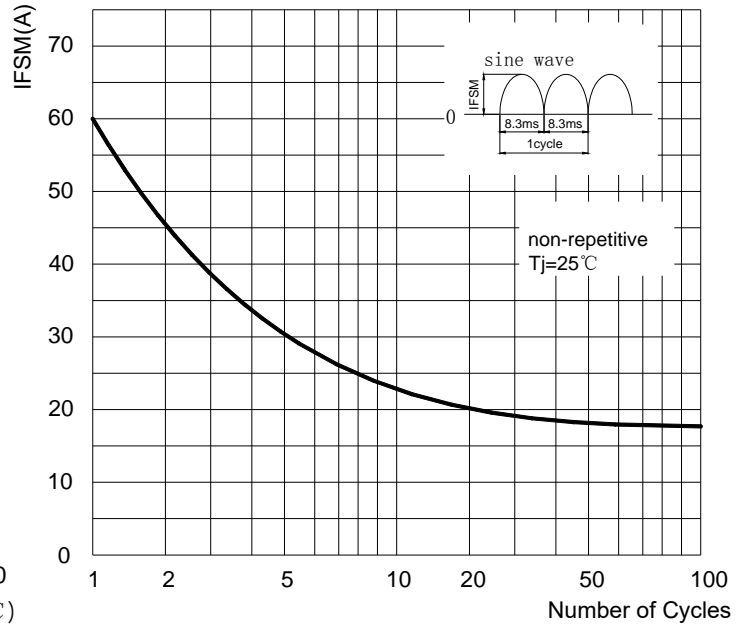


FIG.3: TYPICAL FORWARD CHARACTERISTICS

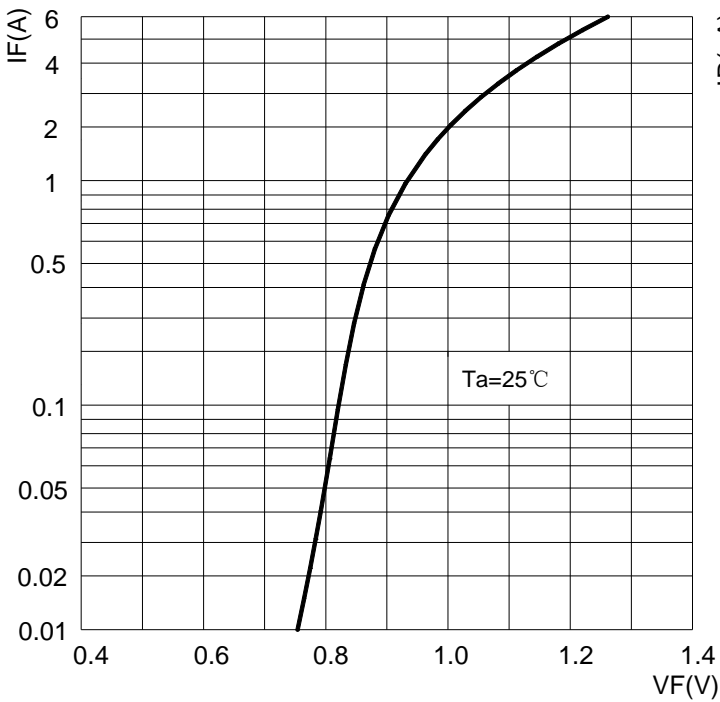
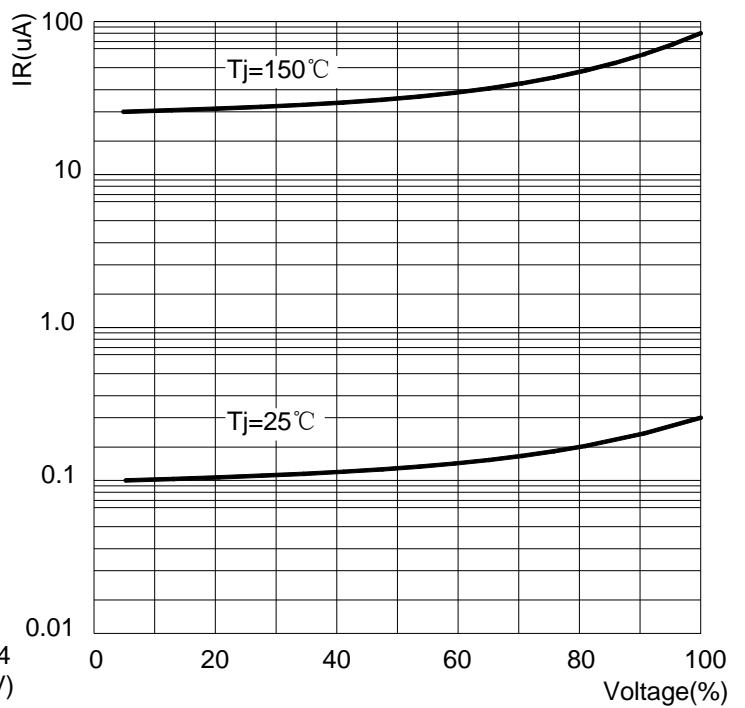
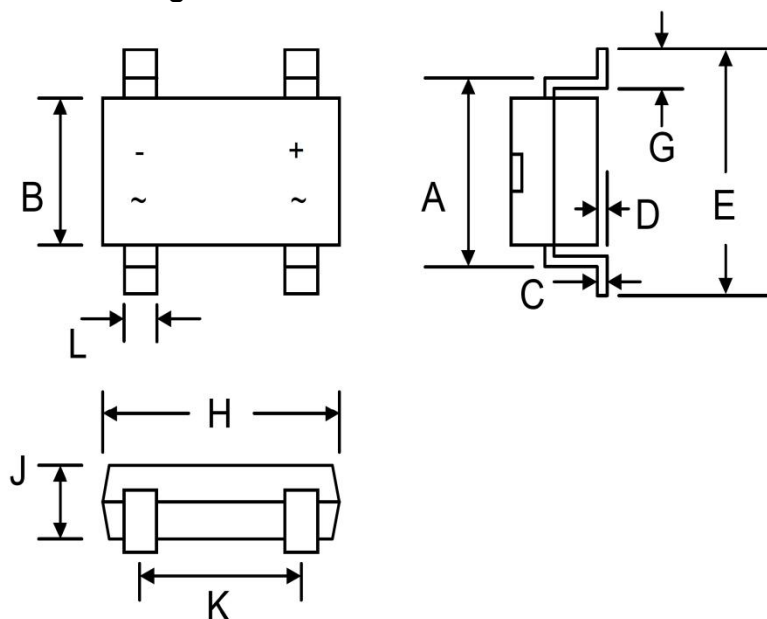
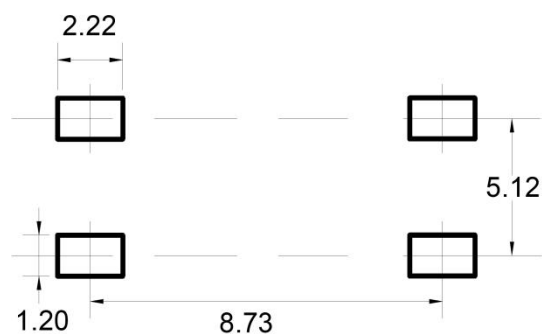


FIG.4: TYPICAL REVERSE CHARACTERISTICS

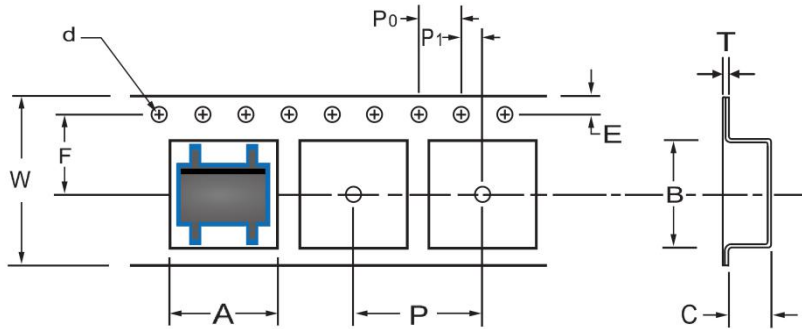


BRIDGE RECTIFIER
DBS Package Outline Dimensions


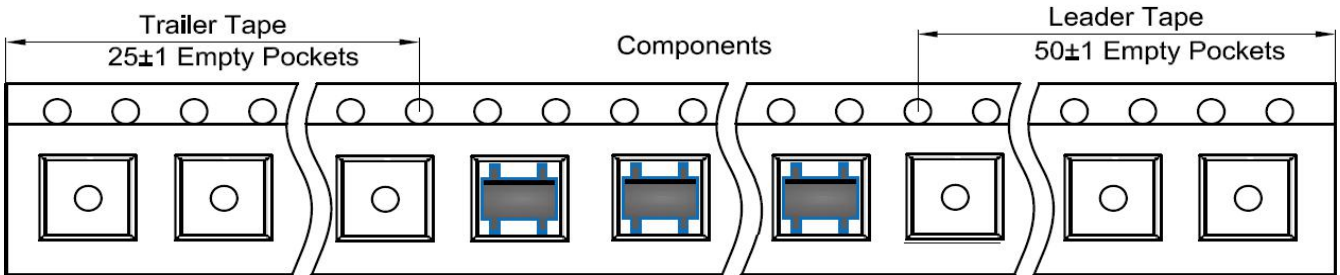
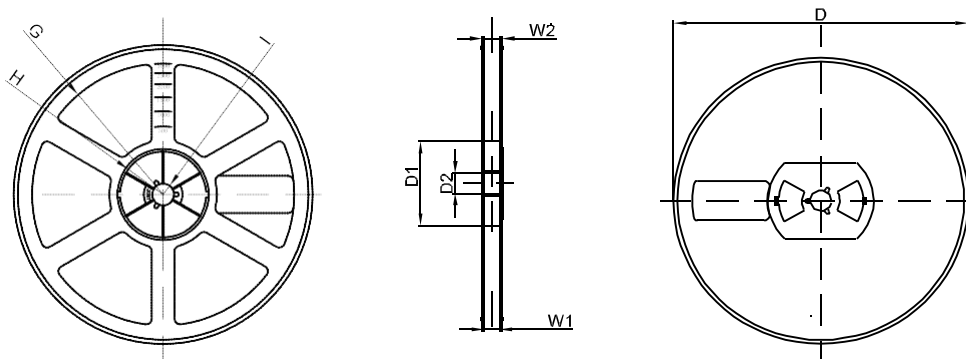
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	7.40	7.90	0.189	0.209
B	6.20	6.50	0.165	0.181
C	0.25	-----	0.006	0.010
D	0.08	0.33	—	0.008
E	9.30	10.30	0.236	0.268
G	1.02	1.53	0.012	0.028
H	8.00	8.51	0.035	0.043
J	2.15	3.40	—	0.059
K	5.00	5.20	0.150	0.165
L	0.90	1.20	0.048	0.068

DBS Suggested Pad Layout

Note:

1. Controlling dimension: in millimeters
2. General tolerance: $\pm 0.05\text{mm}$
3. The pad layout is for reference purposes only

BRIDGE RECTIFIER
DBS Tape and Reel
DBS Embossed Carrier Tape


DIMENSIONS ARE IN MILLIMETER										
TYPE	A	B	C	d	E	F	P0	P	P1	W
DBS	8.64	10.41	3.50	Ø1.50	1.75	7.50	4.00	12.00	2.00	16.00
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

DBS Tape Leader and Trailer

DBS Reel


DIMENSIONS ARE IN MILLIMETER								
REEL OPTION	D	D1	D2	G	H	I	W1	W2
13" DIA	Ø330	100	21	R165	R50	R6.50	16.4	21.00
TOLERANCE	±2	±1	±1	±1	±1	±1	±1	±1