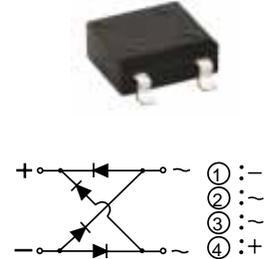


2.0A Surface Mount Bridge Rectifiers - 50V~1000V

PRIMARY CHARACTERISTICS	
V_{RRM}	50V~1000V
$I_{(AV)}$	2.0A
V_F	1.1V
$T_{J,Max}$	150°C

DB-LS PACKAGE

Marking Code :
DB201S~DB207S
Ex : DB207LSA



FEATURES

- High surge overload rating of 50 Amperes peak
- Ideal for printed circuit board
- Glass passivated chip junction
- Moisture Sensitivity Level 1

MECHANICAL DATA

- Case : Molded plastic, DB-LS
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

Maximum Ratings and Electrical Characteristics

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

	Symbols	F D423NUC	F D424NUC	F D425NUC	F D426NUC	F D427NUC	F D428NUC	F D429NUC	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at $T_A=40^\circ\text{C}$ (Note 2)	$I_{(AV)}$	2.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50							Amp
Maximum Forward Voltage at 2.0A DC and 25 °C	V_F	1.1							Volts
Maximum Reverse Current at $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=125^\circ\text{C}$	I_R	5.0 500							uAmp
Typical Junction Capacitance (Note 1)	C_J	25							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40							°C/W
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	15							°C/W
Operating and Storage Temperature Range	T_J, T_{stg}	-55 to +150							°C

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.5 x 0.5" (13 x 13mm) copper pads

RATINGS AND CHARACTERISTIC CURVES

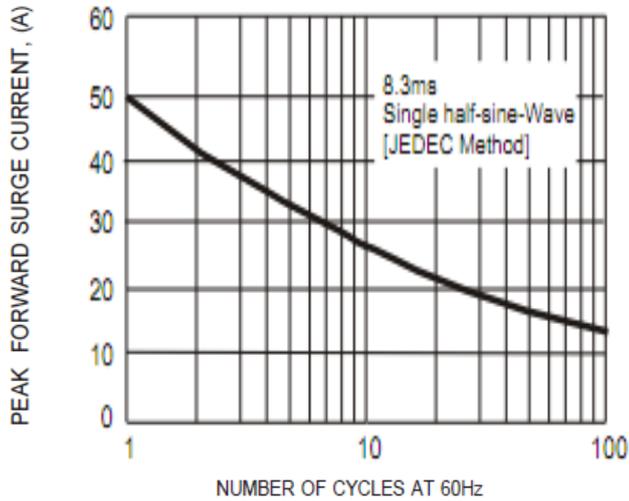


FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

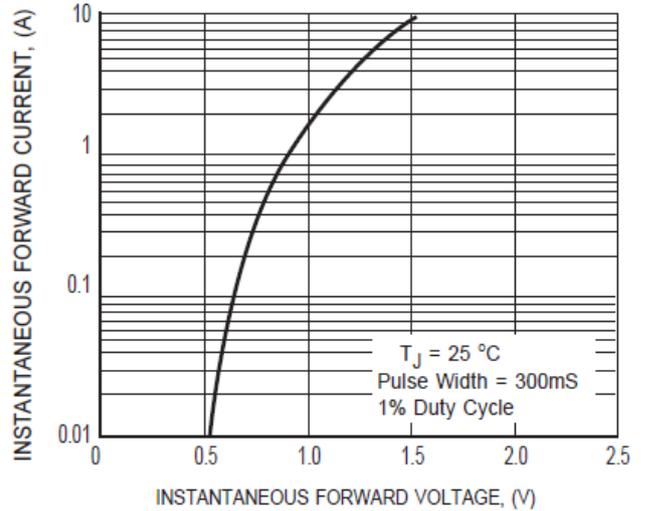


FIG. 2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

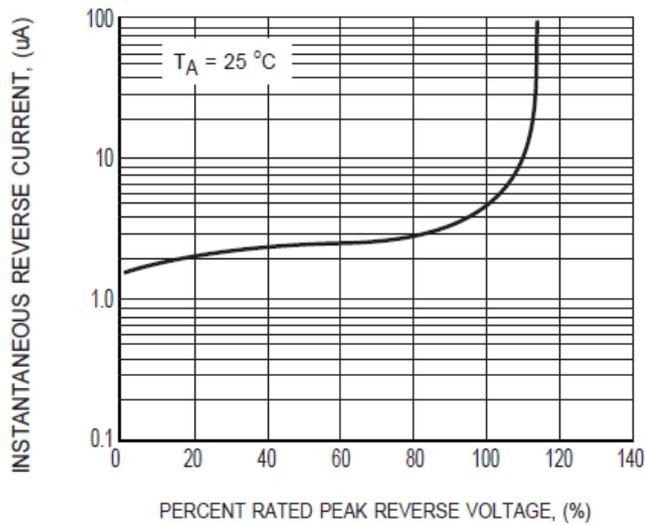


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

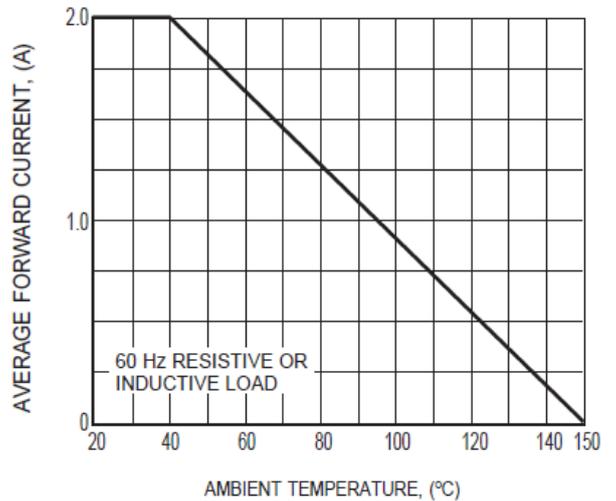
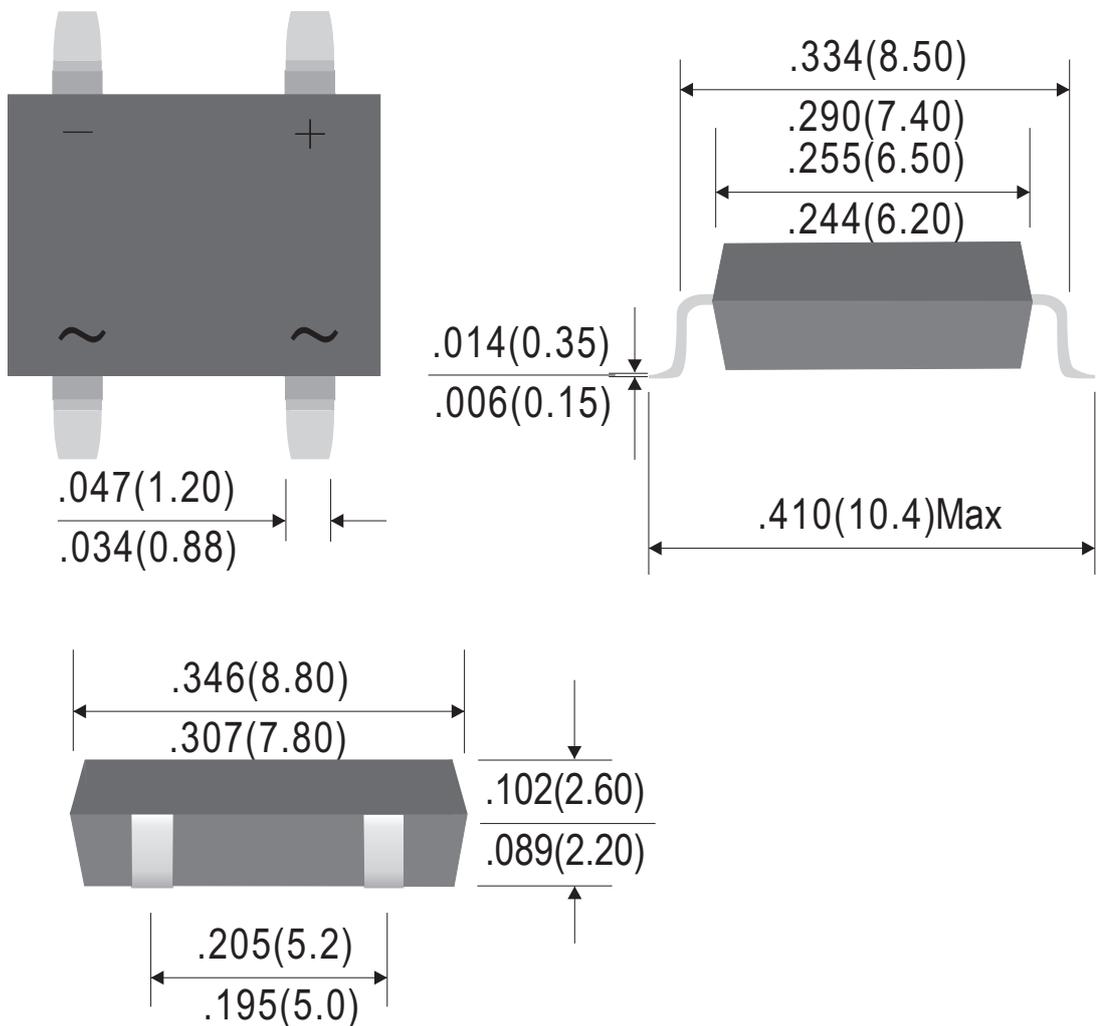


FIG. 4 TYPICAL FORWARD CURRENT DERATING CURVE

Outline Drawing

DB-LS



Dimensions in inches and (millimeters)

Rev.C

2.0A Surface Mount Bridge Rectifiers - 50V~1000V

Ordering Information:

Device PN	Marking ⁽⁴⁾	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS ⁽³⁾	Page.1 Table	Tape&Reel: 1 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

- (2) Packing code Suffix"H" for halogen free product All materials and products supplied comply with the U.S. Toxic Substances Control Act statement, PBT Chemicals
- (3) Willas brand abbreviation, Label Type does not display
- (4) There may be additional marking, which relates to the lot trace code information (data code and vendor code), the logo or the environmental category on the device

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