



DB151S thru DB157S

TECHNICAL SPECIFICATION

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS		REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.5 Amperes							
FEATURES ●Rating to 1000V PRV ●Ideal for printed circuit board ●Low forward voltage drop,high current capability ●Reliable low cost construction utilizing molded plastic technique results in inexpensive product ●Lead tin Pb/Sn copper ●The plastic material has UL flammability classification 94V-0		DBS Top View Dimensions: Pin width: .047(1.2), .037(0.95) Pin spacing: .256(6.5), .244(6.2) Body width: .335(8.5), .307(7.8) Body length: .406(10.3), .391(10.0) Pin length: .140(3.5), .008(0.2) Side View Dimensions: Body width: .346(8.8), .323(8.2) Pin height: .063(1.6), .055(1.4) Body height: .134(3.4), .124(3.15) Pin spacing: .205(5.2), .197(5.0)							
MECHANICAL DATA ●Polarit:As marked on body ●Weight:0.02 ounces,0.38 gras ●Mounting position:Any									
Dimensions in inches and (millimeters)									
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%									
CHARACTERISTICS	SYMBOL	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A =40°C	I _A (AV)	1.5							A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	50							A
Maximum Forward Voltage at 1.5A DC	V _F	1.1							V
Maximum DC Reverse Current @T _J =25°C at Rated DC Bulcking Voltage @T _J =125°C	I _R	10 500							µA
I ² t Rating for Fusing (t<8.3ms)	I ² t	10.4							A ² s
Typical Junction Capacitance Per Element (Note1)	C _J	25							pF
Typical Thermal Resistance (Note2)	R _{θJA}	40							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C
Note:1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC 2.Thermal resistance from junction to ambient mounted on P.C.B with 0.5*0.5*(13*13mm) copper pads.									



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FIG.1-FORWARD CURRENT DERATING CURVE

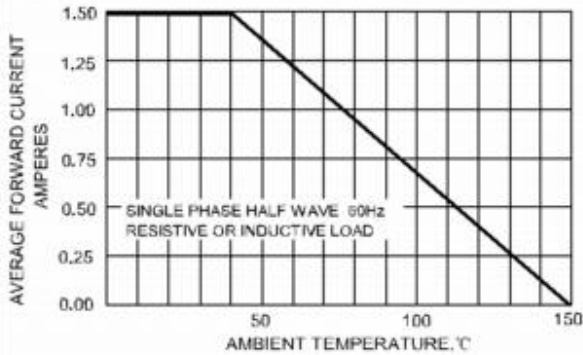


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

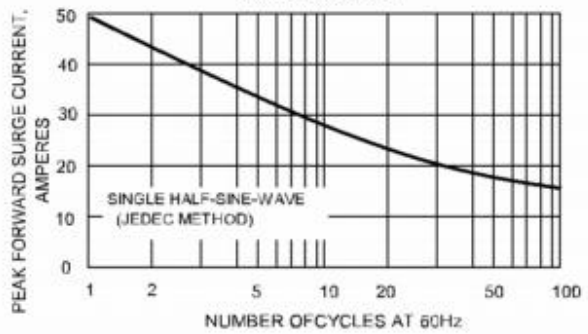


FIG.3-TYPICAL JUNCTION CAPACITANCE

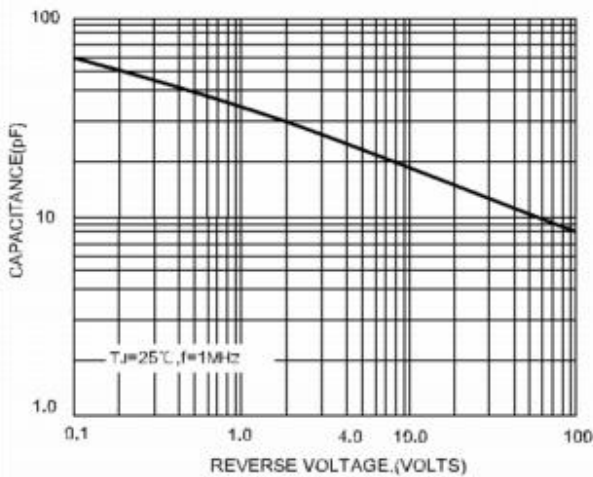


FIG.4-TYPICAL FORWARD CHARACTERISTICS

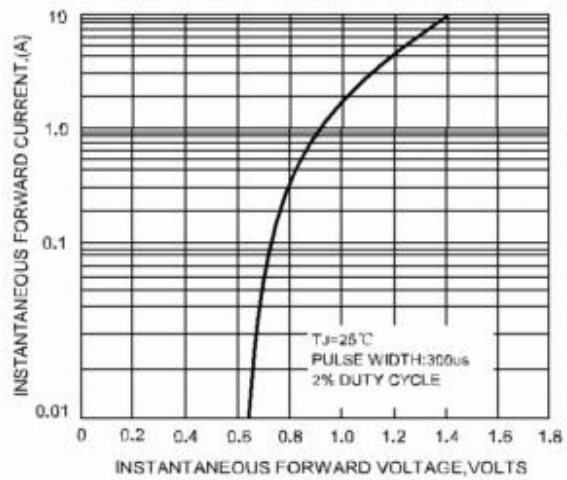


FIG.5-TYPICAL REVERSE CHARACTERISTICS

