

## High Power Multi-Throw PIN Diode Switch Modules

V5

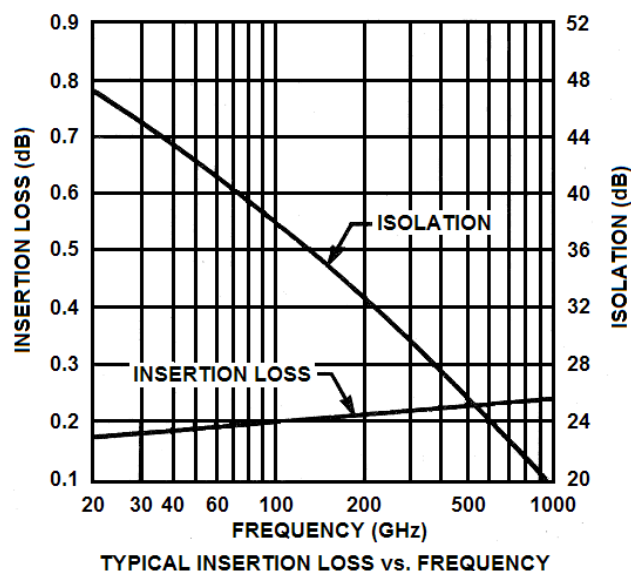
### Specifications @ $T_A=+25^{\circ}\text{C}$

Model Number	Case Style	Maximum <sup>3</sup> CW Input Power (Watts)	Switch Type	Frequency Range (MHz)	Minimum Isolation <sup>1,2</sup> (dB)	Maximum Insertion Loss <sup>1,2</sup> (dB)	Nominal Carrier Lifetime <sup>4</sup> TL ( $\mu\text{S}$ )	Diode Voltage Rating (Volts)
MA8334-001	844-001	100	SPDT	10-1000	24	0.35	8	900
MA8334-004	844-004	100	SP3T	10-1000	24	0.35	8	900

### Performance Notes:

- 1) For the MA8334-001 and the MA8334-004 switches, the small signal insertion loss and isolation measurements are performed at 450 MHz with the "ON" port forward biased @ +50mA, +1V and the "OFF" port reverse biased at 0V, 0mA. For (100W) high signal conditions, the "ON" port is forward biased @ +50mA, +1V and the "OFF" port is reverse biased at -100V, 0mA.
- 2) Maximum small signal VSWR for all switches is 1.35:1 with source and load VSWR < 1.05 :1 in 50  $\Omega$  system at 450 MHz
- 3) Nominal thermal resistance for each diode is 20°C/W.
- 4) Bias conditions +10mA/-6mA

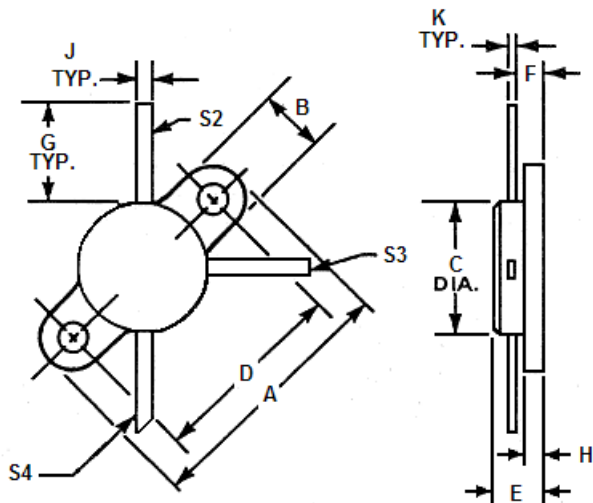
### Performance Data



Note: Specifications subject to change without notification

### Case Dimensions

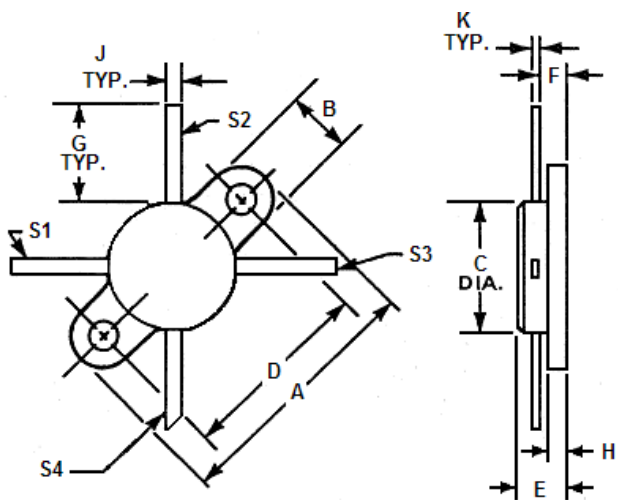
#### Case style 844-001



DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	.970	.980	24.6	24.9
B	.245	.255	6.22	6.48
C	.485	.495	12.3	12.6
D	.720	.730	18.3	18.5
E	.250	.292	6.35	7.42
F	.155	.182	3.94	4.62
G	.400	.420	10.2	10.7
H	.090	.110	2.29	2.79
J	.045	.055	1.14	1.40
K	.005	.007	.127	.178

Mounting holes are 0.118 +/- .010

#### Case style 844-004



DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	.970	.980	24.6	24.9
B	.245	.255	6.22	6.48
C	.485	.495	12.3	12.6
D	.720	.730	18.3	18.5
E	.250	.292	6.35	7.42
F	.155	.182	3.94	4.62
G	.400	.420	10.2	10.7
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