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MRF839F

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **MRF839F** is Designed for Class AB, Common Emitter Applications Up to 960 MHz.

FEATURES INCLUDE:

- Input Matching Network
- High Gain
- Gold Metalization

MAXIMUM RATINGS

Ic	0.6 A			
V _{CES}	36 V			
P _{DISS}	$20 \text{ W } \textcircled{a} \text{ T}_{\text{C}} = 25 ^{\circ}\text{C}$			
TJ	-55 °C to +200 °C			
T _{STG}	-55 °C to +150 °C			
θ _{ЈС}	9.0 °C/W			

	040x45° - C B	Α
4	4X .025 R	2XØ.130
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.430	115 D	المراجع
_	Table	
, E	t	
	.125 G	F
	H	-
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		. 111
DIM .	MINIMUM inches / mm	MAXIMUM
		inches / mm
; A	.355 / 9.02 .115 / 2.92	.365 / 9.27
В	.075 / 1.91	.125 / 3.18
c	.225 / 5.72	.085 / 2.16
: <u>D</u> .	.090 / 2.29	.235 / 5,97
; E	.720 / 18.29	.110 / 2.79 .730 / 18.54
G	.970 / 24.64	.980 / 24.89
н	.355 / 9.02	.365 / 9.27
7 .	.004 / 0.10	.006 / 0.15
. '	.120 / 3.05	.130 / 3.30
к :	.160 / 4.06	180 / 4.57
<u> </u>	.230 / 5.84	.260 / 6.60
	.2007.0.04	.200 / 0.00
	4000400 =	
	1 & 3 & 4 & 6 = EMITT	ER 2 = BASE

CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
BV _{CES}	$I_{\rm C} = 5.0 {\rm mA}$			40			V
BV _{CEO}	$I_{\rm C}$ = 5.0 mA			16			V
BV _{EBO}	I _E = 100 μA		V-	3.5	"		V
I _{CES}	V _{CE} = 15 V					1	mA
h _{FE}	V _{CE} = 5.0 V	I _C = 100 mA	100	10		150	
Сов	V _{CB} = 15 V	-14	f = 1.0 MHz			10	pF
P _G η _c	V _{CE} = 12.5 V F _O = 870 MHz	I _{CQ} = 50mA	P _{OUT} = 3.0 W	8.0 50	10.0		dB %

NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

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