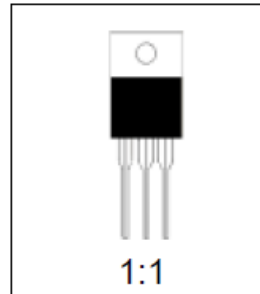
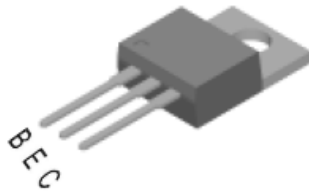


# MRF340

## NPN SILICON RF POWER TRANSISTOR

- Applications: 8W 13dB 28V 70MHz WIN Transceiver
- 65V 1A PQ=8W(136MHz)

### TO-220AB



Scale 1:1 on letter size paper

Dimensions shown below are in:  
inches [millimeters]

Part Weight per unit (gram): 2.24

MRF340 is designed for VHF Radios that use collector modulation in the driver/final amplifiers to produce an amplitude modulated signal.

- High Gain Reduces Drive Requirements
- Economical TO-220AB Package, BEC pin arrangement

### - Maximum Ratings

$I_C$	1.0 A
$V_{CES}$	40 V
$P_{DISS}$	12.5 W @ $T_c = 25\text{ }^\circ\text{C}$
$T_{STG}$	-55 $^\circ\text{C}$ to +150 $^\circ\text{C}$
$\theta_{JC}$	10 $^\circ\text{C/W}$



1 → B  
 2 → E  
 3 → C  
 4 →

**Characteristics TC = 25 °C**

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CES}$	$I_C = 50 \text{ mA}$	40			V
$BV_{CBO}$	$I_C = 10 \text{ mA}$	40			V
$BV_{EBO}$	$I_E = 5.0 \text{ mA}$	4.0			V
$I_{CES}$	$V_{CES} = 25 \text{ V}$			1.0	mA
$h_{FE}$	$V_{CE} = 10 \text{ V}$ $I_C = 100 \text{ mA}$	10		200	---
$C_{OB}$	$V_{CB} = 30 \text{ V}$ $f = 1.0 \text{ MHz}$		15		pF
$G_{PE}$	$V_{CC} = 13.5 \text{ V}$ $P_{out} = 2.0 \text{ W}$ $f = 136 \text{ MHz}$		10		dB
$G_{PE}$ $\eta$	$V_{CC} = 27 \text{ V}$ $P_{out} = 8.0 \text{ W}_{pk}$ $f = 136 \text{ MHz}$	13.0	15.0 55		dB %

**TO-220AB Package Dimensions**

