

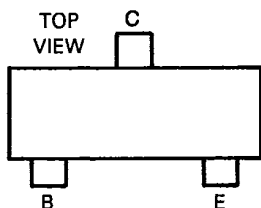
6367255 MOTOROLA SC (DIODES/OPTO)

34C 38281 D

SOT23 (continued)

T-29-19

DEVICE NO. **MMBC1622D6,7,8** SMALL-SIGNAL NPN TRANSISTORS



- Designed for audio-frequency high-gain amplifier applications.

MAXIMUM RATINGS

Device	Marking
MMBC1622D6	D6
MMBC1622D7	D7
MMBC1622D8	D8

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	V_{CEO}	35	Vdc
Collector-Base Voltage	V_{CBO}	40	Vdc
Emitter-Base Voltage	V_{EB}	5.0	Vdc
Collector Current	I_C	100	mA dc

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Test Conditions	Min	Typ	Max	Unit
I_{CBO}	$V_{CB} = 25 \text{ Vdc}, I_E = 0$	—	—	50	nA dc
I_{EBO}	$V_{EB} = 5.0 \text{ Vdc}, I_C = 0$	—	—	50	nA dc
h_{FE}	$V_{CE} = 3.0 \text{ Vdc}, I_C = 0.1 \text{ mA dc}$	All	150	—	—
	$V_{CE} = 3.0 \text{ Vdc}, I_C = 0.5 \text{ mA dc}$	MMBC1622D6	200	—	400
		MMBC1622D7	300	—	600
		MMBC1622D8	450	—	900
$V_{CE(sat)}$	$I_C = 100 \text{ mA dc}, I_B = 10 \text{ mA dc}$	—	—	0.3	Vdc
$V_{BE(on)}$	$V_{CE} = 3.0 \text{ Vdc}, I_C = 0.5 \text{ mA dc}$	0.55	—	0.65	Vdc
f_T	$V_{CE} = 6.0 \text{ Vdc}, I_E = 1.0 \text{ mA dc}, f = 100 \text{ MHz}$	—	100	—	MHz