

DRIVER STAGE AMPLIFIER APPLICATIONS.  
VOLTAGE AMPLIFIER APPLICATIONS.

### FEATURES

- Complementary to MPSA55.
- Driver Stage Application of 20 to 25 Watts Amplifiers.

### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CB0}$	60	V
Collector-Emitter Voltage	$V_{CE0}$	60	V
Emitter-Base Voltage	$V_{EB0}$	6	V
Collector Current	$I_C$	500	mA
Emitter Current	$I_E$	-500	mA
Collector Power Dissipation	$P_C$	625	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55 ~ 150	°C



### ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CB0}$	$V_{CB}=60V, I_E=0$	-	-	100	nA
Emitter Cut-off Current	$I_{CE0}$	$V_{CE}=60V, I_B=0$	-	-	100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C=5mA, I_B=0$	60	-	-	V
DC Current Gain	$h_{FE(1)}$	$V_{CE}=1V, I_C=10mA$	100	-	-	
	$h_{FE(2)}$	$V_{CE}=1V, I_C=100mA$	100	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=100mA, I_B=10mA$	-	-	0.25	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=1V, I_C=100mA$	-	-	1.2	V
Transition Frequency	$f_T$	$V_{CE}=1V, I_C=10mA$	80	-	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	10	-	pF