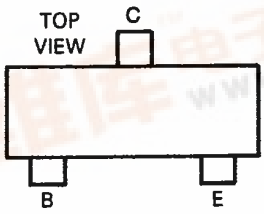
DEVICE NO. MMBA813S2,3,4
SMALL-SIGNAL PNP TRANSISTOR



- Designed for audio amplifier and driver applications.

Device	Marking
MMBA813S2	S2
MMBA813S3	S3
MMBA813S4	S4

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	V_{CEO}	45	Vdc
Collector-Base Voltage	V_{CBO}	60	Vdc
Emitter-Base Voltage	V_{EB}	5.0	Vdc
Collector Current	I_C	200	mAdc

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Parameter	Test Conditions		Min	Max	Unit
I_{CBO}	V_{CB} = 45 Vdc, I_E = 0		—	−0.1	μAdc
I_{EBO}	V_{EB} = 5.0 Vdc, I_C = 0		—	−0.1	μAdc
h_{FE}	V_{CE} = 1.0 Vdc, I_C = 50 mAdc	MMBA813S2	50	100	—
		MMBA813S3	75	150	
		MMBA813S4	100	200	
	V_{CE} = 2.0 Vdc, I_C = 150 mAdc		30	—	
$V_{CE(sat)}$	I_C = 150 mAdc, I_B = 15 mAdc		—	−0.50	Vdc
$V_{BE(sat)}$	I_C = 150 mAdc, I_B = 15 mAdc		—	−1.2	Vdc
$V_{BE(on)}$	V_{CE} = 10 Vdc, I_C = 10 mAdc		—	−0.90	Vdc