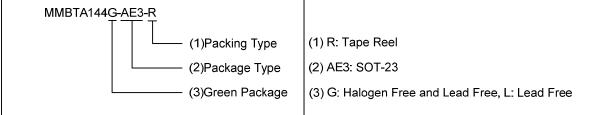


ORDERING INFORMATION

Ordering Number		Deskare	Pin Assignment			Deeking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MMBTA144L-AE3-R	E3-R MMBTA144G-AE3-R		В	E	С	Tape Reel	
Note: Pin Assignment: B: Base E: Emitter C: Collector							



MARKING



■ ABSOLUTE MAXIMUM RATING

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	Vсво	500	V
Collector-Emitter Voltage	VCEO	500	V
Emitter-Base Voltage	V _{EBO}	6	V
Collector Current	lc	300	mA
Collector Dissipation(T _A =25°C)	Pc	350	mW
Operating Junction Temperature	TJ	-40 ~ +150	°C
Storage Temperature	T _{STG}	-40 ~ +150	°C

Note: 1.Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

2. Device mounted on FR-4 substrate PC board, 2oz copper, with 1inch square copper plate.

THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT	
Junction to Ambient	θ _{JA}	357	°C/W	

Note: Device mounted on FR-4 substrate PC board, 2oz copper, with 1inch square copper plate.

■ ELECTRICAL CHARACTERISTICS (TJ=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	ВУсво	Ic=100μA, Iε=0	500			V
Collector-Emitter Breakdown Voltage	BVCEO	Ic=1mA, Iв=0	500			V
Emitter-Base Breakdown Voltage	ВVево	Iε=100μA, Ic=0	6			V
Collector-Base Cutoff Current	Ісво	Vcb=500V, IE=0			0.1	μA
Collector Cutoff Current	ICES	Vce=500V, Ib=0			0.5	μA
Emitter-Base Cutoff Current	Іево	VEB=4V, IC=0			0.1	μA
ON CHARACTERISTICS			÷			
		V _{CE} =10V, I _C =1mA	80			
DC Current Cain (Nata)	hfe	Vce=10V, Ic=10mA	82			
DC Current Gain (Note)		V _{CE} =10V, I _C =50mA	45			
		Vce=10V, Ic=100mA	20			
	VCE(SAT)	Ic=1mA, I _B =0.1mA			0.4	V
Collector-Emitter Saturation Voltage		Ic=10mA, Iв=1mA			0.5	V
		Ic=50mA, I _B =5mA			0.75	V
Base-Emitter Saturation Voltage	V _{BE(SAT)}	Ic=10mA, I _B =1mA			0.75	V
SMALL-SIGNAL CHARACTERISTICS						
Current Gain Bandwidth Product	f⊤	V _{CE} =20V,I _C =10mA, f=100MHz	50			MHz

Note: Pulse test: PW<300 μ s, Duty Cycle<2%



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