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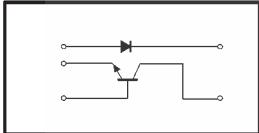
Low-frequency transistor (isolated transistor and diode)

UML2N

●Features

- 1) The 2SC2412K and a diode are housed independently in a UMT package.

●Circuit diagram



●Package, marking, and packaging specifications

Part No.	UML2N
Package	UMT5
Marking	L2
Code	TR
Basic ordering unit (pieces)	3000

●Electrical characteristics (Ta = 25°C)

Tr

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BV _{CBO}	50	—	—	V	I _c =1mA
Collector-base breakdown voltage	BV _{CBO}	60	—	—	V	I _c =50 μA
Emitter-base breakdown voltage	BV _{EBO}	6	—	—	V	I _e =50 μA
Collector cutoff current	I _{CBO}	—	—	0.1	μA	V _{ce} =60V
Emitter cutoff current	I _{EBO}	—	—	0.1	μA	V _{eb} =5V
Collector-emitter saturation voltage	V _{CE(sat)}	—	—	0.4	V	I _c /I _e =50mA/5mA
DC current transfer ratio	h _{FE}	120	—	560	—	V _{ce} =6V, I _c =1mA
Transition frequency	f _T	—	180	—	MHz	V _{ce} =12V, I _e =2mA, f=100MHz
Output capacitance	C _{ob}	—	2	3.5	pF	V _{ce} =12V, I _e =0A, f=1MHz

Di

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _F	—	—	1.2	V	I _f =100mA
Reverse current	I _R	—	—	0.1	μA	V _R =70V
Capacitance between terminals	C _r	—	—	3.5	pF	V _R =6V, f=1MHz
Reverse recovery time	t _{rr}	—	—	4	ns	V _R =6V, I _R =5mA, RL=50Ω