

SOT-523





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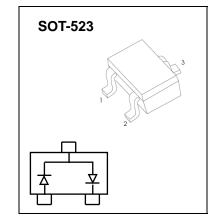
Plastic-Encapsulate Diodes

Ultra High Speed Switching Application

Small package

Low forward voltage : V_{F(3)} = 0.97 V (typ.)
Fast reverse recovery time: t_{rr} = 1.6 ns (typ.)
Small total capacitance : C_T = 0.5 pF (typ.)

Marking: C3



Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Maximum (peak) reverse voltage	V _{RM}	85	V	
Reverse voltage	VR	80	V	
Maximum (peak) forward current	I _{FM}	240 *	mA	
Average forward current	lo	80 *	mA	
Surge current (10ms)	IFSM	1 *	Α	
Power dissipation	P _D (Note 1, 3)	120	mW	
	P _D (Note 2)	100		
Junction temperature	Tj (Note 1)	150	°C	
	T _j (Note 2)	125		
Storage temperature	T _{stg} (Note 1)	-55 to 150	°C	
	T _{stg} (Note 2)	-55 to 125		

Note 1: For devices with the ordering part number ending in (TE85L,F).

Note 2: For devices with the ordering part number in other than (TE85L,F).

Note 3: Mounted on a FR4 board. (25.4 mm \times 25.4 mm \times 1.6 mm, Cu pad: 0.36 mm² \times 3)

*: Unit rating. Total rating = Unit rating \times 1.5.

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Forward voltage	VF (1)	IF = 1 mA	_	0.63	_	V
	VF (2)	IF = 10 mA	_	0.75	_	
	VF (3)	I _F = 100 mA	_	0.97	1.20	
Reverse current	IR (1)	V _R = 30 V	_	_	0.1	μА
	I _R (2)	V _R = 80 V	_	_	0.5	
Total capacitance	Ст	V _R = 0 V, f = 1 MHz	_	0.5	3.0	pF
Reverse recovery time	t _{rr}	I _F = 10 mA, Fig.1	_	1.6	4.0	ns

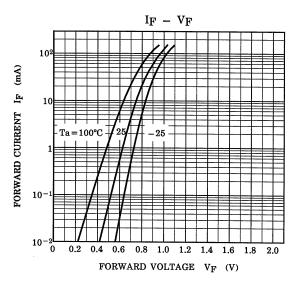


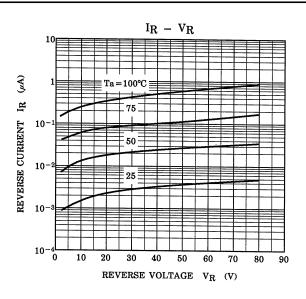
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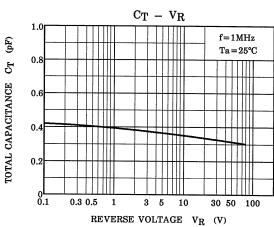


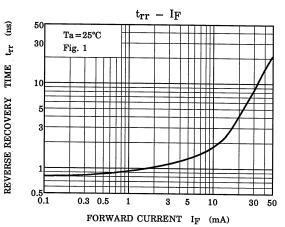
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Typical Characteristics









The above characteristics curves are presented for reference only and not guaranteed by production test, unless otherwise noted.