

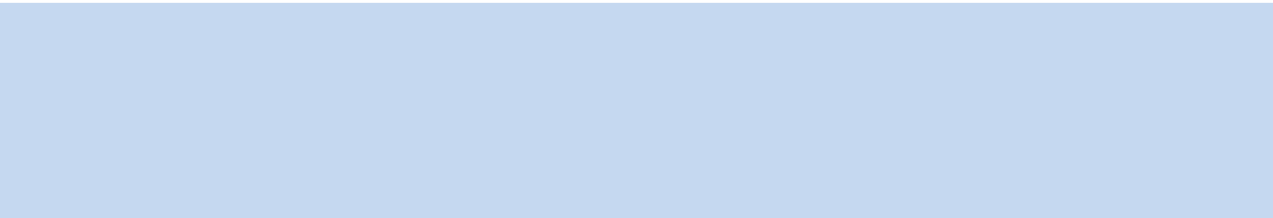


DTC143XKA

Electrical Characteristics (Ta 1 2) unless other k ise specified)

ITEM	SYMBOL	UNIT	CONDITIONS	MIN		
Input voltage	$V_{I(off)}$	V	$V_{CC} - 1 \text{ V} \leq I_{C1} \leq 1 \text{ mA}$	≤ 3		
	$V_{I(on)}$	V	$V_{I1} \leq 3 \text{ V} \leq I_{C2} \leq 1 \text{ mA}$			≥ 2
Output voltage	$V_{O(n)}$	V	$I_{O1} / I_{I1} \leq 1 \text{ mA} / 1 \text{ mA}$			≤ 3
Output current	$I_{O(off)}$	uA	$V_{CC} - 1 \text{ V} \leq V_{I1} \leq 1 \text{ V}$			≤ 1
DC current gain	GI		$V_{O1} - 1 \text{ V} \leq I_{O1} \leq 1 \text{ mA}$	≥ 3		
Input resistance	R	k		$3 \times 10^2 -$	$4 \times 10^4 +$	$\times 10^{11}$
Resistance ratio	R_1			$1 \times 10^4 +$	2×10^1	2×10^4
Transition frequency	fT	MHz	$V_{O1} - 1 \text{ V} \leq I_{O1} \leq 1 \text{ mA}$	$\geq 1 \text{ MHz}$	≥ 2	

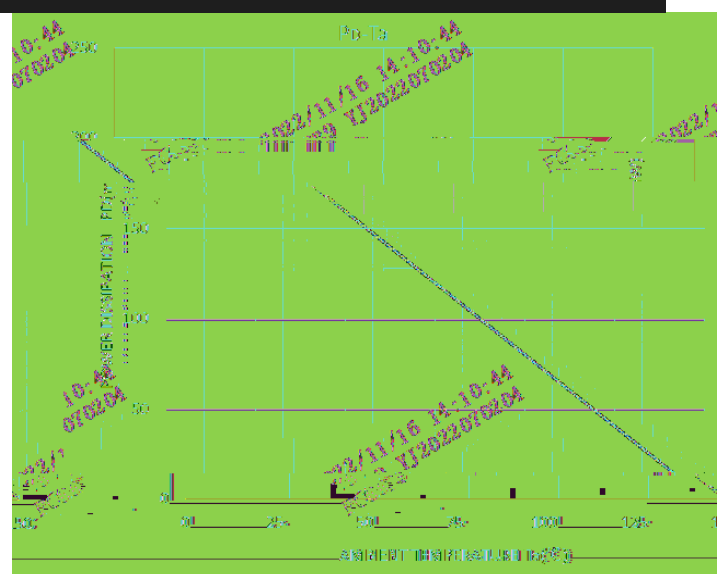
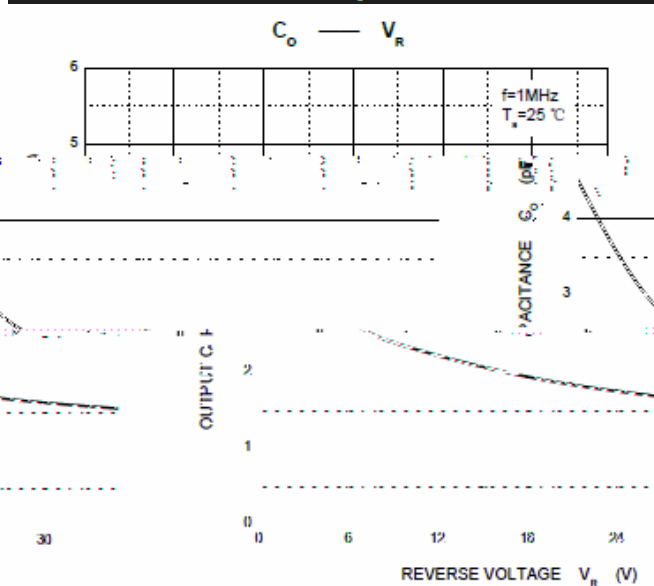
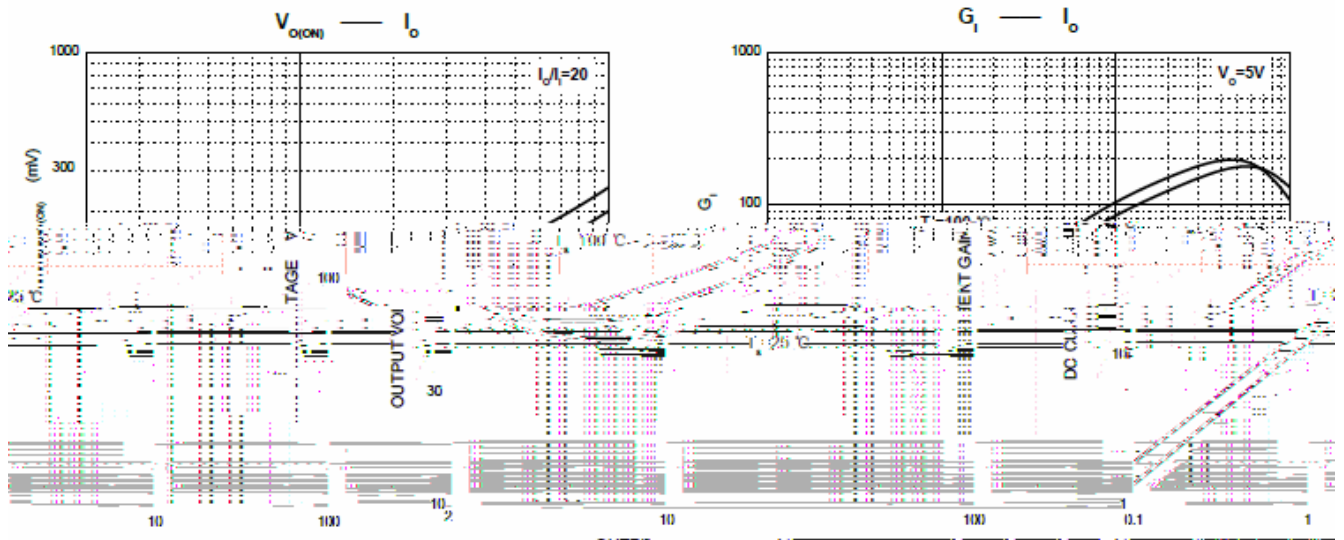
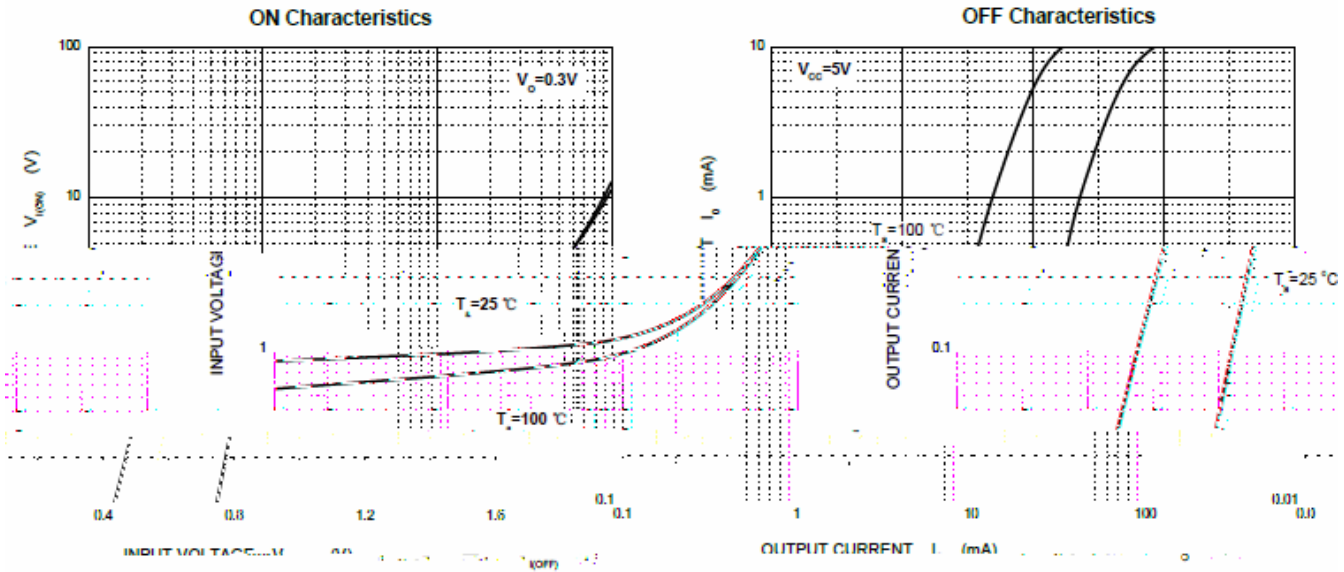
Ordering Information (Example)





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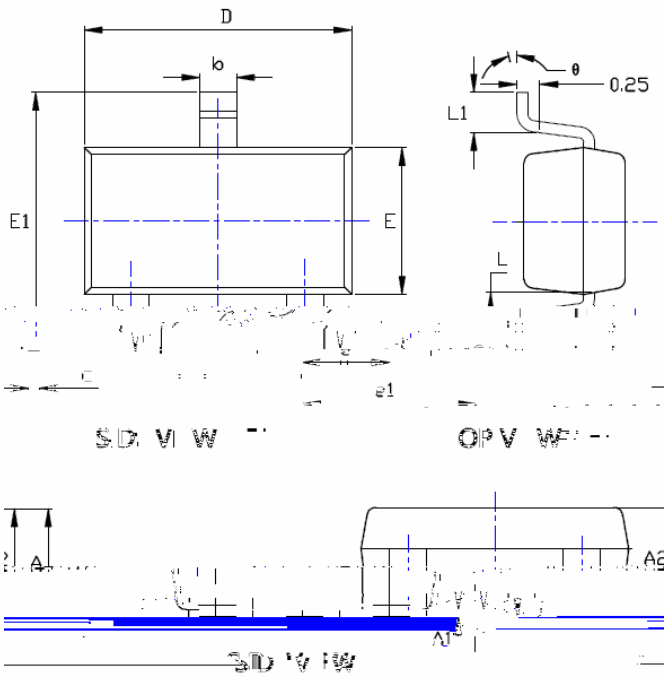
Characteristics (Typical)





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SOT-23-3L Package Outline Dimensions



SYMBOL	DIMENSIONS			
	INCHES		Millimeter	
	MIN.	MAX.	MIN.	MAX.
A	0.041	0.049	1.050	1.250
A1	0.000	0.008	0.000	0.200
A2	0.041	0.045	1.050	1.150
e	0.059	0.067	1.500	1.700
e1	0.104	0.116	2.650	2.950
l	0.037	YP	0.950	YP
l1	0.071	0.079	1.800	2.000
θ	0.024R		0.600R	
ϕ	0.012	0.024	0.300	0.600
	0°	8°	0°	8°



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