

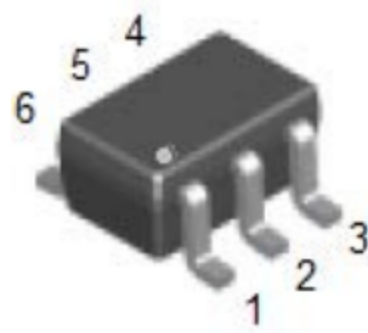


Features

- Two TPDTC144E chips in a package
- Mounting possible with SOT-363 automatic mounting machines
- Transistor elements are independent, eliminating interference
- Mounting cost and area be cut in half

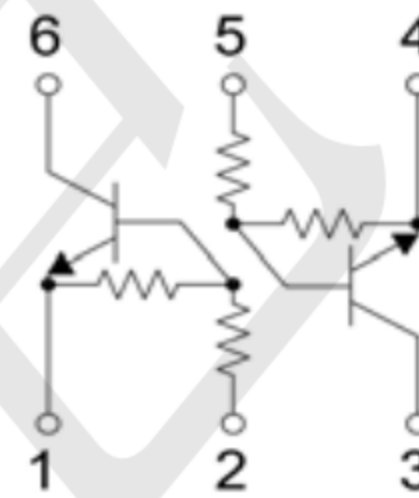
Ordering Information

Shipping Qty:3000 /7inch Tape& Reel



SOT363

Circuit Diagram



Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

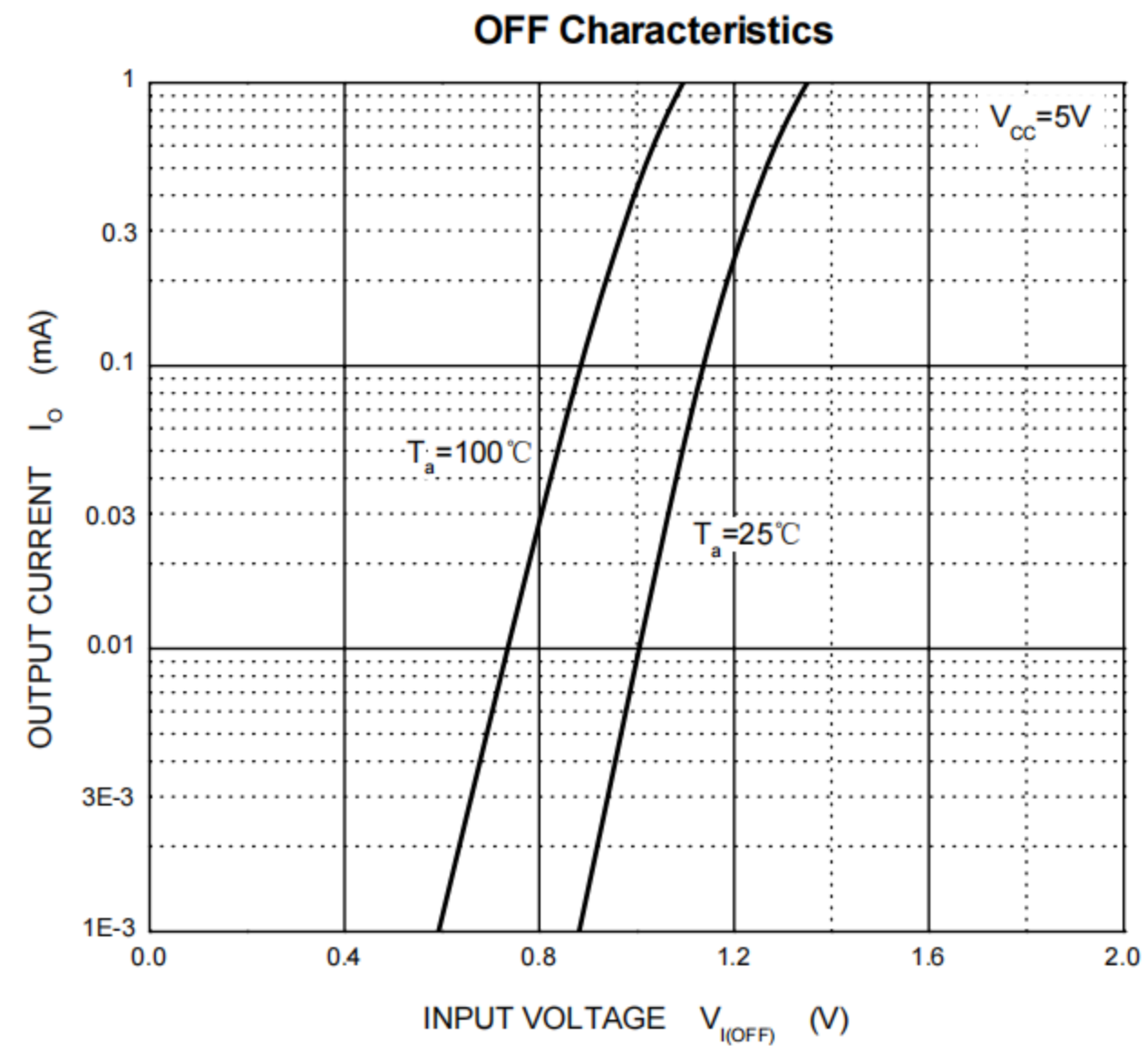
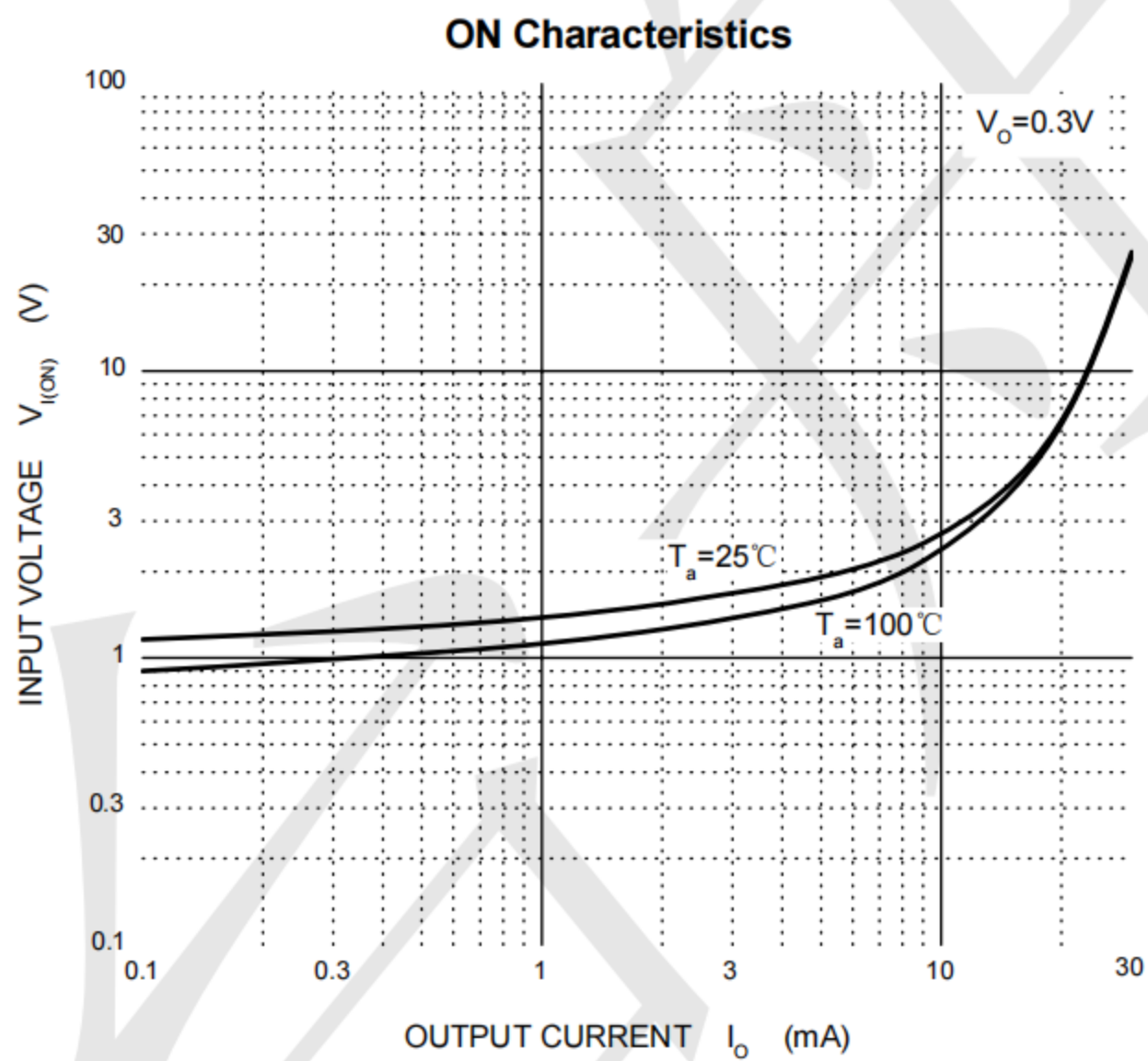
Symbol	Parameter	Value	Units
V _{CC}	Supply Voltage	50	V
V _i	Input voltage	-10 to +40	V
I _{C(MAX)}	Output current	100	mA
P _D	Power dissipation	150	mW
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C



Electrical Characteristics (TA=25°C unless otherwise specified)

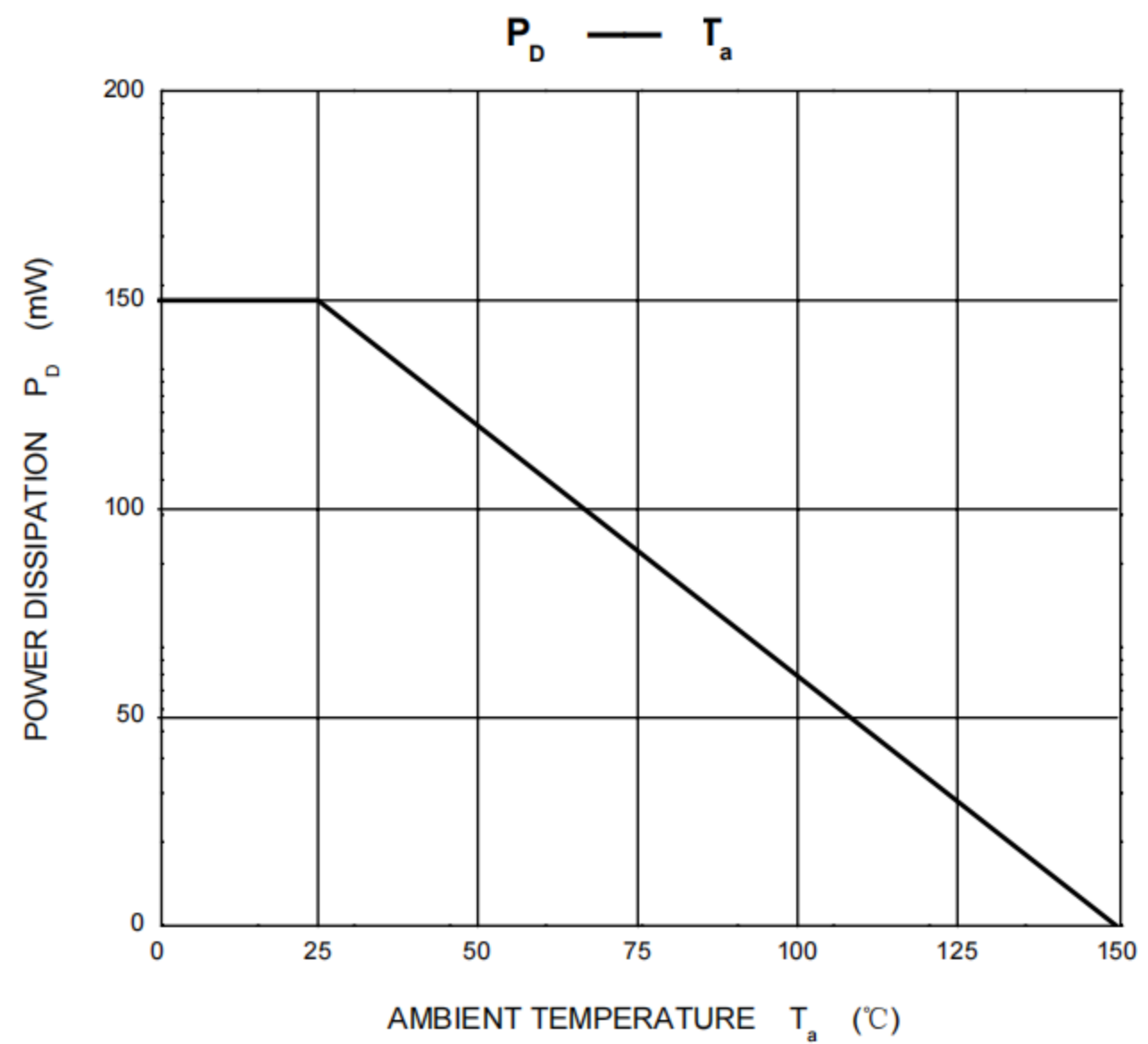
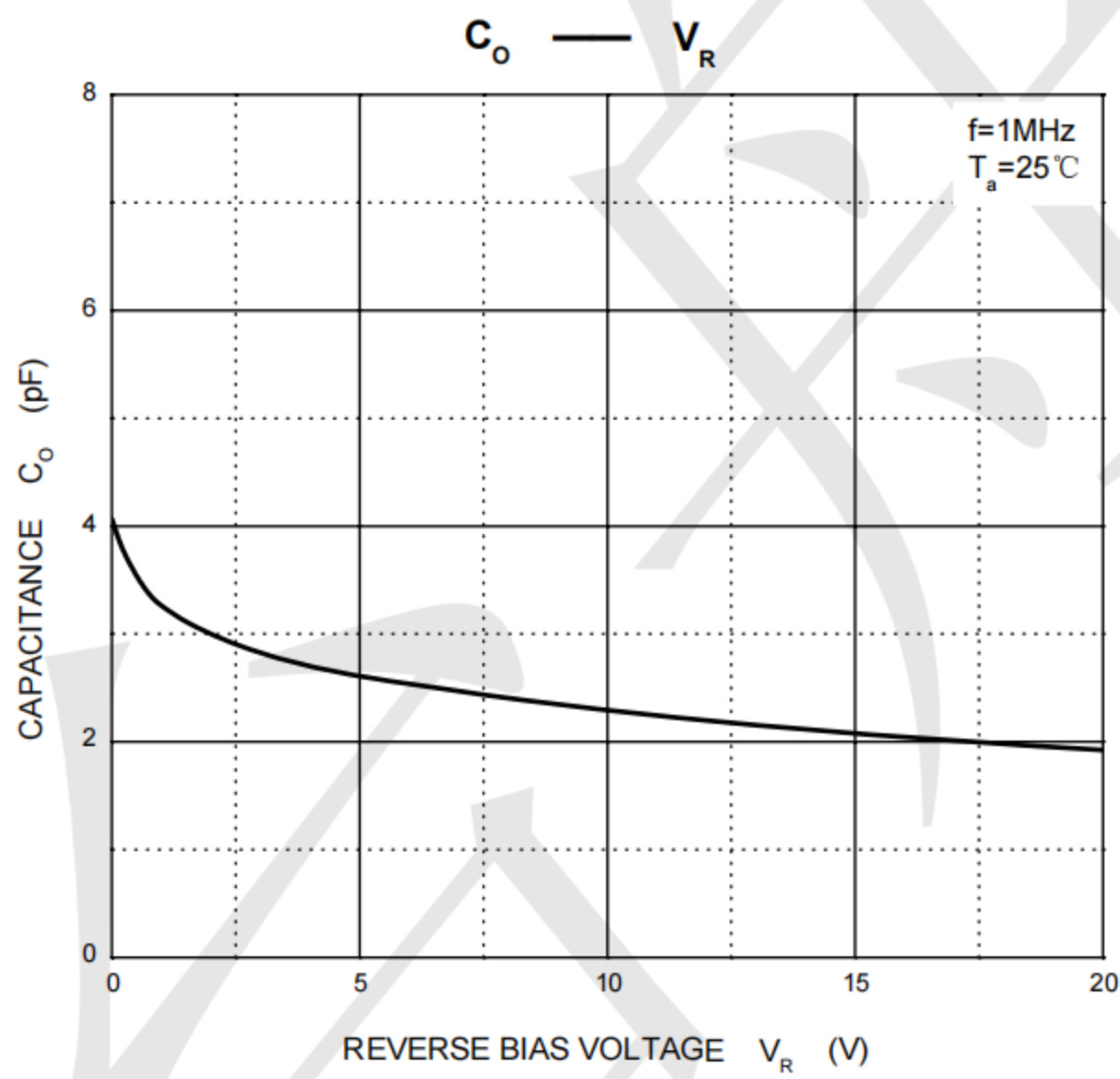
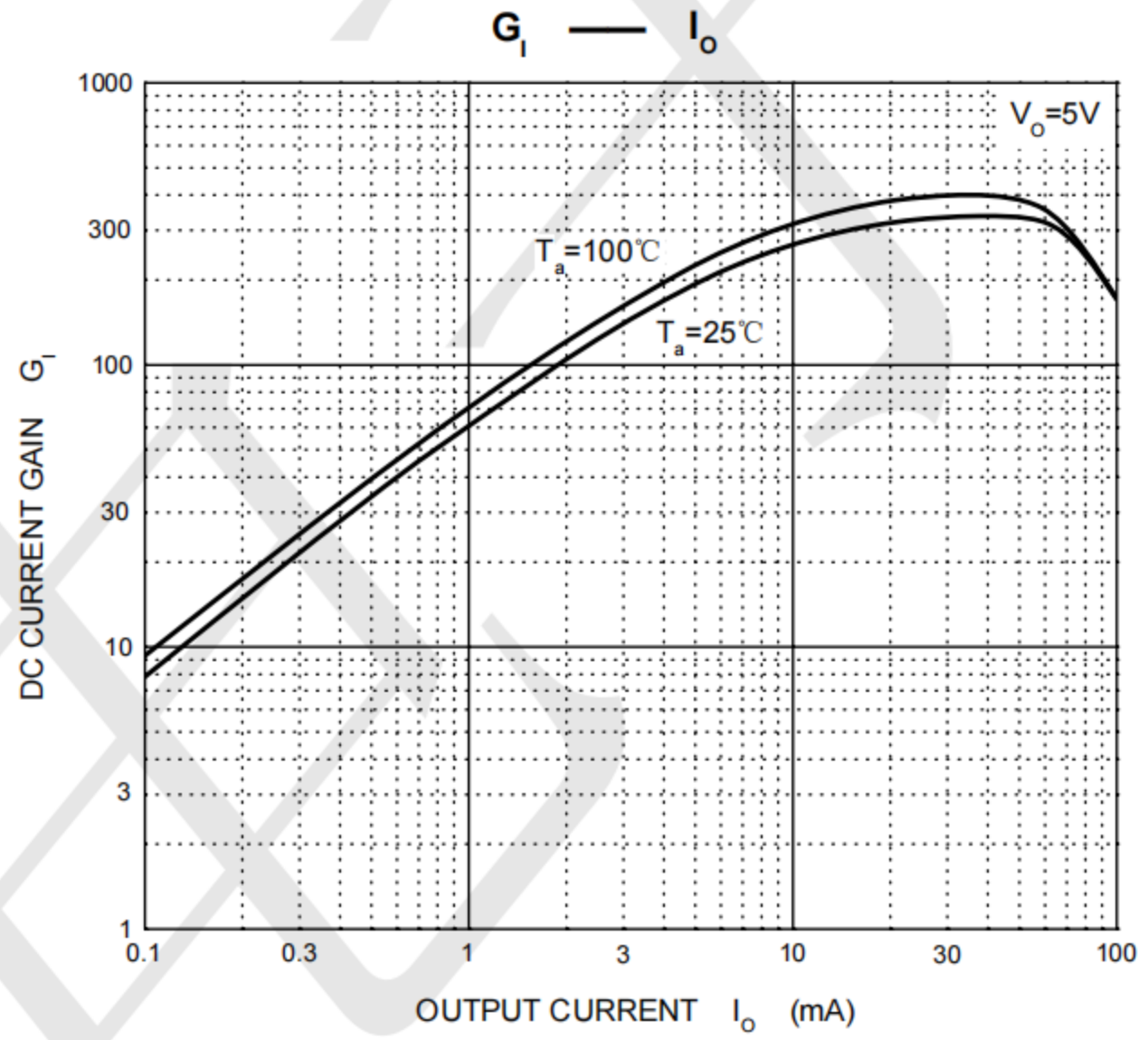
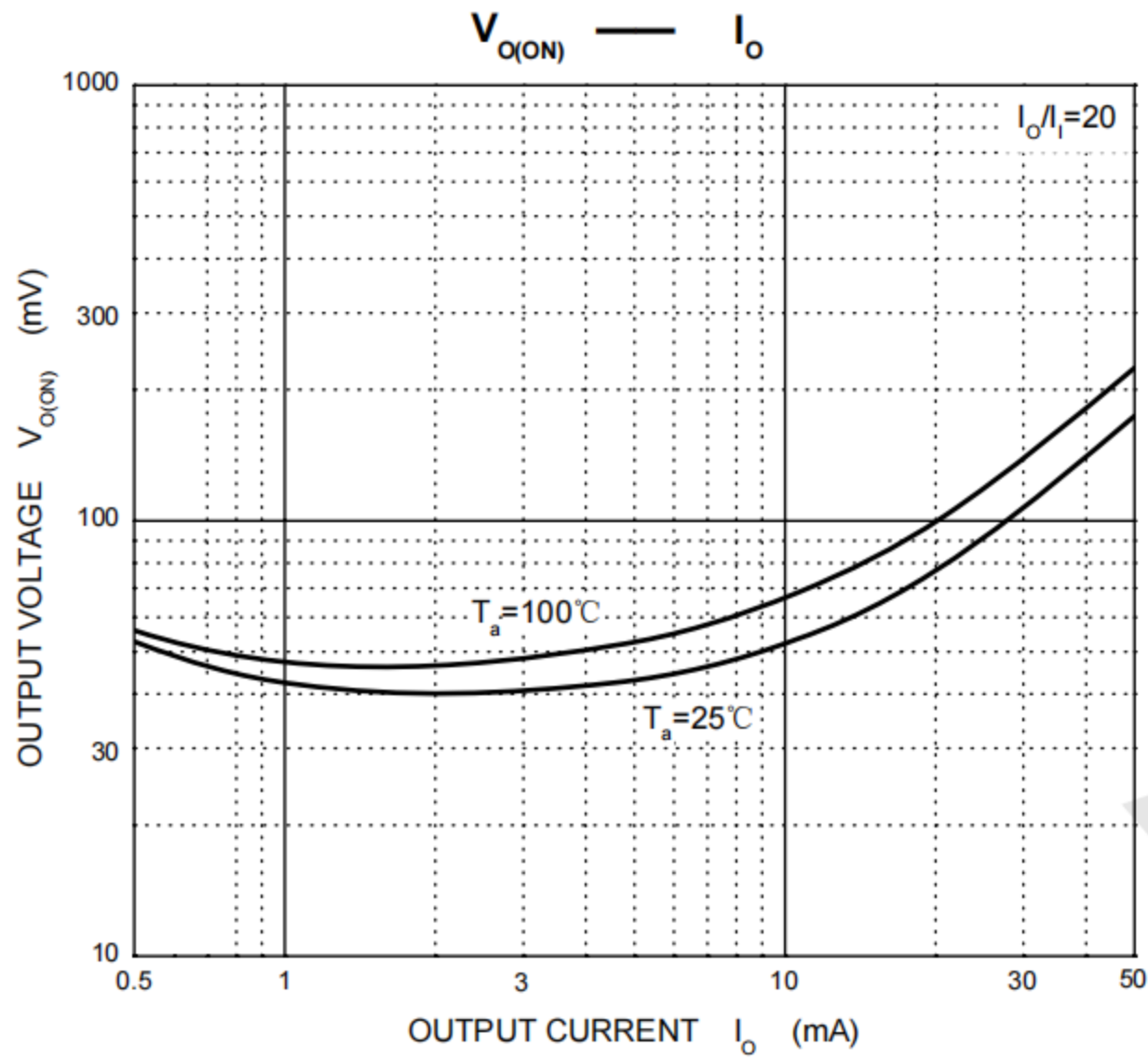
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Input turn-on voltage	$V_{i(on)}$	$V_{CC}=0.3V, I_o=2mA$			3	V
Input cut-off voltage	$V_{i(off)}$	$V_{CC}=5V, I_o=100\mu A$	0.5			V
Output voltage	$V_{o(on)}$	$I_o=10mA, I_i=0.5mA$			0.3	V
Input cut-off current	I_i	$V_i=5V$			0.18	mA
Output cut-off current	$I_{o(off)}$	$V_{CC}=50V, V_i=0$			0.5	μA
DC current gain	G_i	$V_o=5V, I_o=5mA$	68			
Transition frequency	f_T	$V_o=10V, I_o=5mA, f=100MHz$		250		MHz
Input resistance	R_1		32.9		61.1	K Ω
Resistance ratio	R_2/R_1		0.8		1.2	

Typical Performance Characteristics (TA=25°C unless otherwise Specified)



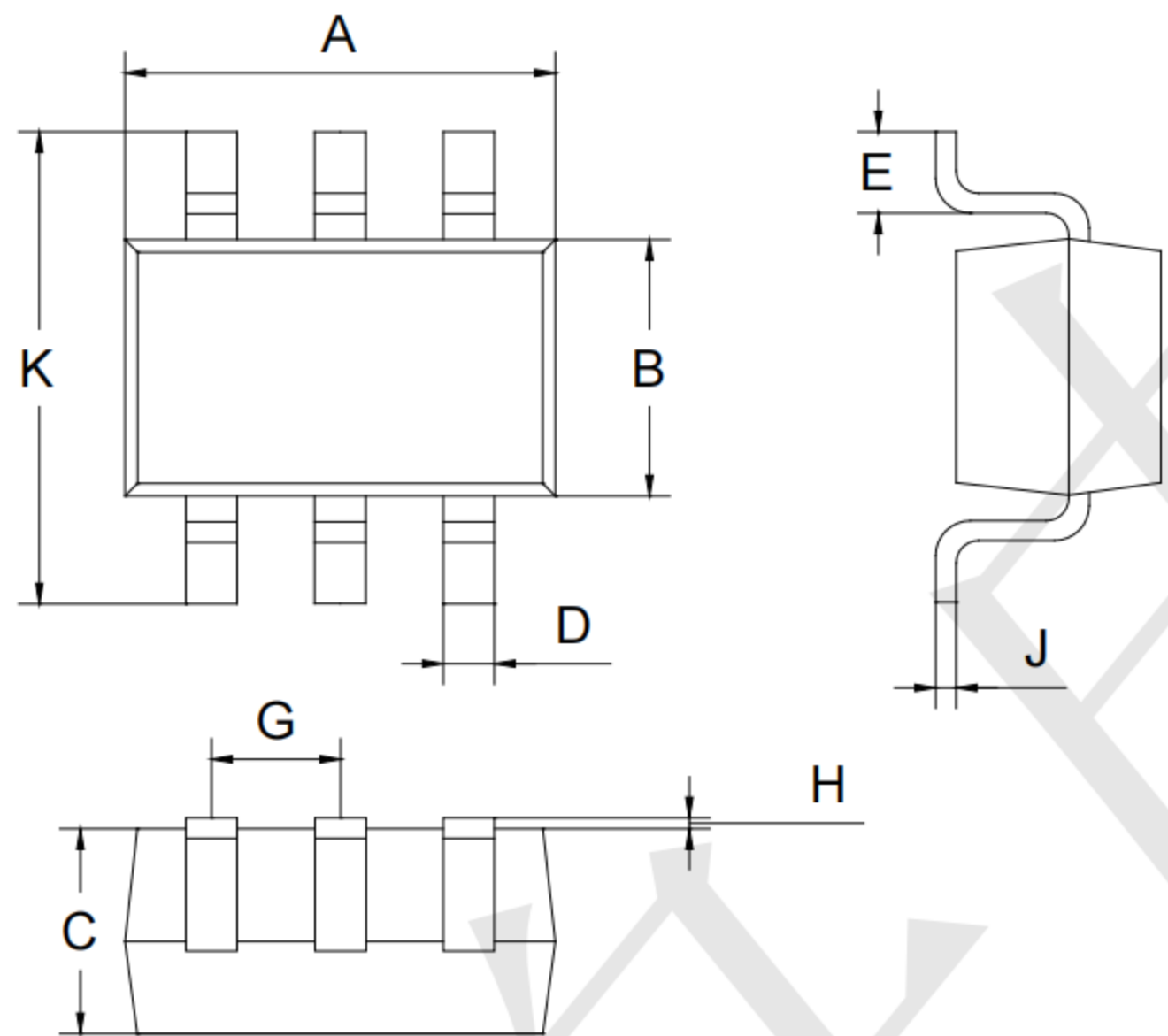


Typical Performance Characteristics (T_A=25°C unless otherwise Specified)





Outline Drawing - SOT363 (unit: mm)



SOT-363		
Dim	Min	Max
A	2.00	2.20
B	1.15	1.35
C	0.85	1.05
D	0.15	0.35
E	0.25	0.40
G	0.60	0.70
H	0.02	0.10
J	0.05	0.15
K	2.20	2.40

Mounting Pad Layout-SOT363 (unit: mm)

