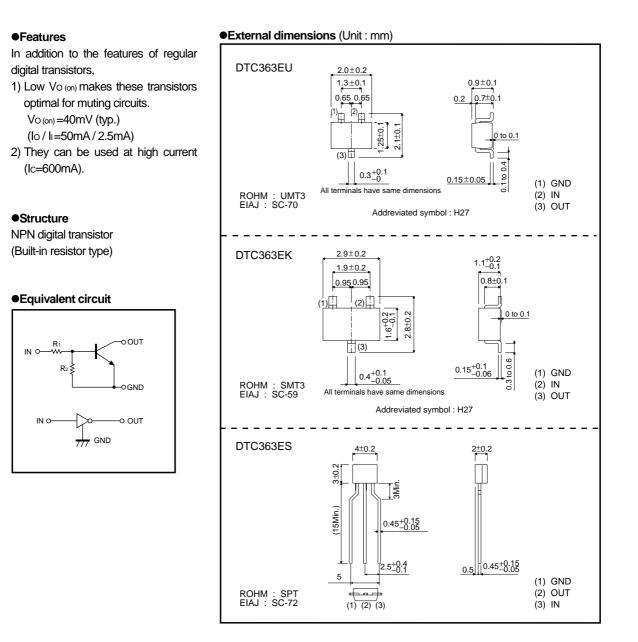
Digital transistors (built-in resistors) DTC363EU/DTC363EK/DTC363ES



Rev.A

Transistors

•Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limi	Unit			
Farameter	Symbol	U	К	S	Unit	
Supply voltage	Vcc		V			
Input voltage	Vin	-	V			
Output current	lc	600			mA	
Power dissipation	Pd	20	00	300	mW	
Junction temperature	Tj	150			°C	
Storage temperature	Tstg	-55 to +150			°C	

•Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Input voltage	VI(off)	-	-	0.5	v	Vcc=5V, Ιο=100μΑ	
	VI(on)	2	-	-		Vo=0.3V, Io=10mA	
Output voltage	VO(on)	-	40	80	mV	lo/lı=50mA/2.5mA	
Input current	h	-	-	1.3	mA	Vi=5V	
Output current	IO(off)	-	_	0.5	μΑ	Vcc=15V, Vi=0V	
DC current gain	Gi	70	-	-	-	Vo=5V, Io=50mA	
Input resistance	R1	4.76	6.8	8.84	kΩ	_	
Resistance ratio	R2/R1	0.8	1	1.2	-	_	
Transition frequency	fт	-	200	-	MHz	Vce=10V, Ie=-50mA, f=100MHz *	
Output "ON" resistance	Ron	_	1.0	-	Ω	Vi=7V, R∟=1kΩ, f=1kHz	

*Transition frequency of the device

Packaging specifications

Part No.	Package	UMT3	SMT3	SPT
	Packaging type	Taping	Taping	Taping
	Code	T106	T146	TP
	Basic ordering unit (pieces)	3000	3000	5000
DTC363EU		0	-	-
DTC363EK		-	0	-
DTC363ES		-	-	0

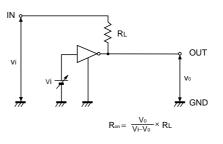


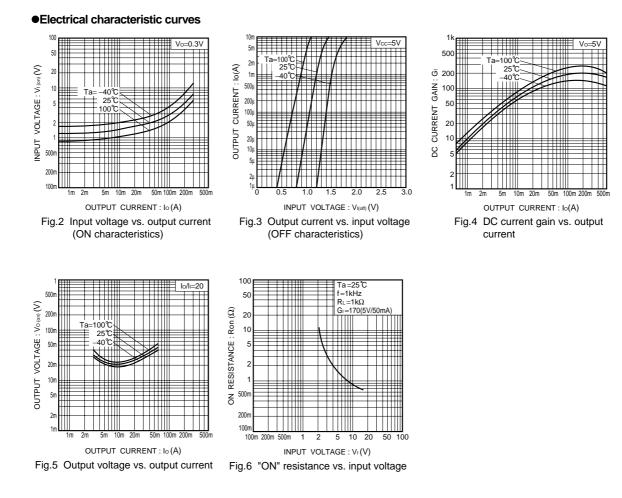
Fig.1 Input "ON" resistance (Ron) measurement circuit

•Ron measurement circuit

ROHM

DTC363EU / DTC363EK / DTC363ES

Transistors



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