

ZUMT817-25
ZUMT817-40

PARTMARKING DETAILS ZUMT817-25 - T7
 ZUMT817-40 - T23

COMPLEMENTARY TYPES ZUMT817-25 - ZUMT807-25
 ZUMT817-40 - ZUMT807-40-T7



PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	50	V
Collector-Emitter Voltage	V_{CEO}	45	V
Emitter-Base Voltage	V_{EBO}	5	V
Peak Pulse Current	I_{CM}	1	A
Continuous Collector Current	I_C	500	mA
Base Current	I_B	100	mA
Peak Base Current	I_{BM}	200	mA
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	330	mW
Operating and Storage Temperature Range	T_j, T_{stg}	-55 to +150	$^{\circ}C$

PARAMETER		SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector Cut-Off Current		I_{CBO}			0.1 5	μA μA	$V_{CB}=20V, I_E=0$ $V_{CB}=20V, I_E=0, T_{amb}=150^{\circ}C$
Emitter Cut-Off Current		I_{EBO}			10	μA	$V_{EB}=5V, I_C=0$
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$			700	mV	$I_C=500mA, I_B=50mA^*$
Base-Emitter Turn-on Voltage		$V_{BE(on)}$			1.2	V	$I_C=500mA, V_{CE}=1V^*$
Static Forward Current Transfer Ratio		h_{FE}	100		600		$I_C=100mA, V_{CE}=1V^*$
			40				$I_C=500mA, V_{CE}=1V^*$
			160		400		$I_C=100mA, V_{CE}=1V^*$
	-40		250		600		$I_C=100mA, V_{CE}=1V^*$
Transition Frequency		f_T		200		MHz	$I_C=10mA, V_{CE}=5V$ $f=35MHz$
Collector-base Capacitance		C_{obo}		5.0		pF	$I_E=I_E=0, V_{CB}=10V$ $f=1MHz$

* Measured under pulsed conditions. Pulse width=300 μ s. Duty cycle $\leq$ 2%