

Characteristics
Kennwerte

		$T_j = 25^\circ\text{C}$	Min.	Typ.	Max.
DC current gain – Kollektor-Basis-Stromverhältnis ¹⁾ - $V_o = 5\text{ V}$, - $I_o = 10\text{ mA}$	G_T	MMDT5110W	160	–	460
		MMDT5111W	35	–	–
		MMDT5112W	60	–	–
		MMDT5113W	80	–	–
		MMDT5114W	80	–	–
		MMDT5115W	160	–	460
Collector Base cutoff current – Kollektor-Basis-Reststrom - $V_{CB} = 50\text{ V}$	- I_{CBO}		–	–	100 nA
Collector Base cutoff current – Kollektor-Basis-Reststrom - $V_{EB} = 6\text{ V}$	- I_{EBO}	MMDT5110W	–	–	10 μA
		MMDT5111W	–	–	500 μA
		MMDT5112W	–	–	200 μA
		MMDT5113W	–	–	100 μA
		MMDT5114W	–	–	200 μA
		MMDT5115W	–	–	10 μA
Input voltage (on) – Eingangsspannung (Ein) – $V_o = 0.3\text{ V}$, $I_o = 10\text{ mA}$ $V_o = 0.2\text{ V}$, $I_o = 5\text{ mA}$ $V_o = 0.3\text{ V}$, $I_o = 2\text{ mA}$ $V_o = 0.3\text{ V}$, $I_o = 1\text{ mA}$ –	- $V_{I(on)}$	MMDT5110W	–	–	–
		MMDT5111W	–	–	3 V
		MMDT5112W	–	–	3 V
		MMDT5113W	–	–	3 V
		MMDT5114W	–	–	1.4 V
		MMDT5115W	–	–	–
Input resistor tolerance – Toleranz Eingangswiderstand	R1		-30%		+30%
Input voltage (off) – Eingangs-Spannung (Aus) - $V_o = 5\text{ V}$, - $I_o = 100\text{ }\mu\text{A}$	- $V_{I(off)}$	MMDT5110W	–		
		MMDT5111W	0.5		
		MMDT5112W	0.5		
		MMDT5113W	0.5		
		MMDT5114W	0.3		
		MMDT5115W	–		
Transition Frequency – Transitfrequenz (Transistor) - $V_o = 10\text{ V}$, - $I_o = 5\text{ mA}$, $f = 100\text{ MHz}$	f_T		–	250 MHz	–

Disclaimer: See data book page 2 or [website](#)
Haftungsausschluss: Siehe Datenbuch Seite 2 oder [Internet](#)

1 Tested with pulses $t_p = 300\text{ }\mu\text{s}$, duty cycle $\leq 2\%$ – Gemessen mit Impulsen $t_p = 300\text{ }\mu\text{s}$, Schaltverhältnis $\leq 2\%$