

Maximum ratings

Parameter	Symbol	Value	Unit
Operating temperature range	T_A	- 40 / + 150	°C
Storage temperature range	T_{stg}	- 50 / + 160	°C
Supply current	I_1	7	mA
Thermal conductivity ¹⁾	$G_{th A}$	≥ 2.7	mW/K

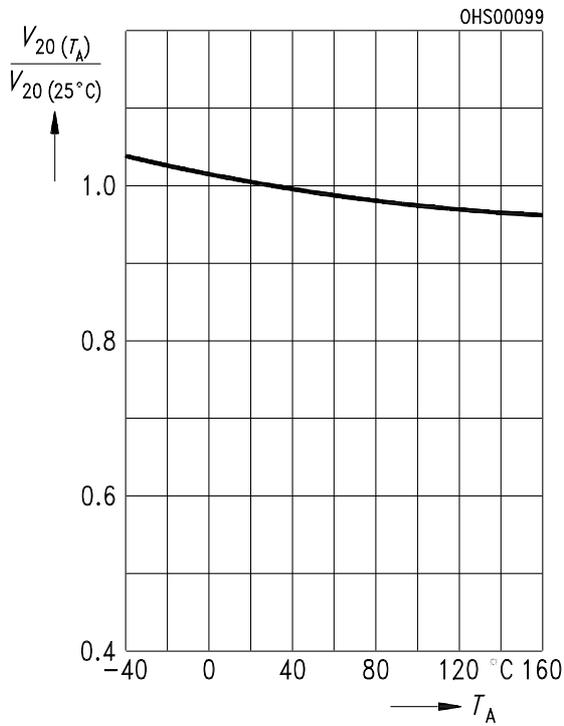
Characteristics ($T_A = 25\text{ °C}$)

Nominal supply current	I_{1N}	5	mA
Open-circuit Hall voltage $I_1 = I_{1N}, B = 0.1\text{ T}$	V_{20}	95...145	mV
Ohmic offset voltage ²⁾ $I_1 = I_{1N}, B = 0\text{ T}$	V_{R0}	$\leq \pm 30$	mV
Supply and Hall side internal resistance $B = 0\text{ T}$	$R_{10, 20}$	900...1200	Ω
Temperature coefficient of the open-circuit Hall voltage $I_1 = I_{1N}, B = 0.2\text{ T}$	TC_{V20}	approx. -0.05	%/K
Temperature coefficient of the internal resistance $B = 0.2\text{ T}$	$TC_{R10, R20}$	approx. + 0.1...0.18	%/K

1) Thermal conductivity chip-ambient when mounted on alumina ceramic 15 mm x 16.7 mm x 0.7 mm

2) Selection upon request

Open-circuit Hall voltage V_{20} versus temperature
referred to V_{20} at $T_A = 25\text{ °C}$



Max. permissible supply current I_1 versus temperature T_A

