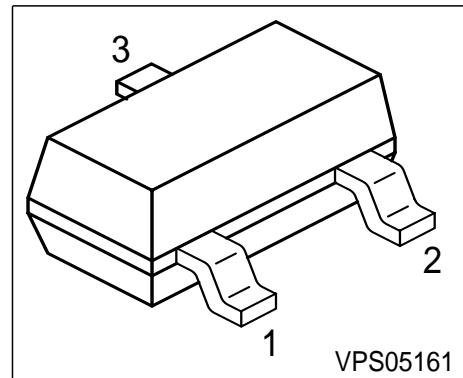


**Silicon Schottky Diode**

- Rectifier Schottky diode for modem applications
- High reverse voltage
- For power supply
- For clamping and protection in high voltage applications



**ESD:** Electrostatic discharge sensitive device, observe handling precaution!

Type	Marking	Ordering Code	Pin Configuration			Package
BAT 240A	4Ms	Q62702-A1234	1=C1/A2	2 = C2	3 = A1	SOT-23

**Maximum Ratings**

Parameter	Symbol	Value	Unit
Diode reverse voltage	$V_R$	240	V
Peak reverse voltage	$V_{RM}$	250	V
Forward current	$I_F$	400	mA
Surge forward current ( $t \leq 10\text{ms}$ )	$I_{FSM}$	1	A
Total power dissipation, $T_S = 28^\circ\text{C}$	$P_{tot}$	400	mW
Junction temperature	$T_j$	80	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55...+150	

**Maximum Ratings**

Junction - ambient 1)	$R_{thJA}$	$\leq 465$	K/W
Junction - soldering point	$R_{thJS}$	$\leq 305$	

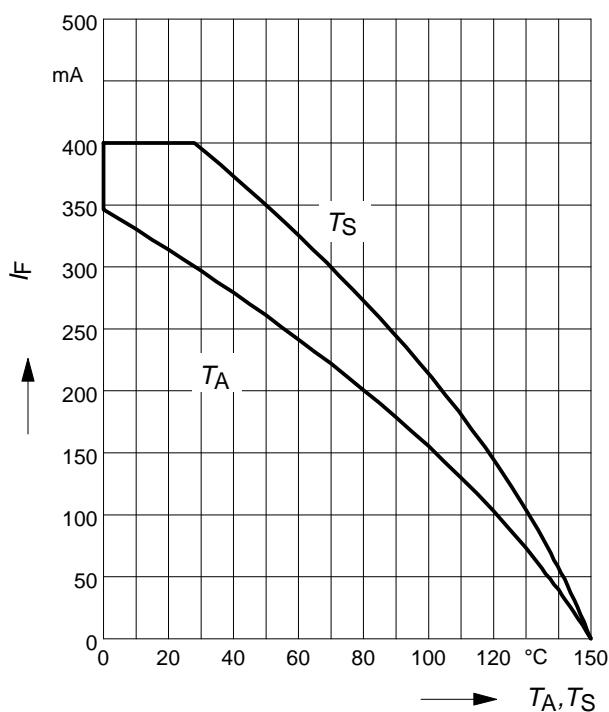
1) Package mounted on epoxy pcb 40mm x 40mm x 1.5mm / 0.5cm<sup>2</sup> Cu

**Electrical Characteristics** at  $T_A = 25^\circ\text{C}$ , unless otherwise specified.

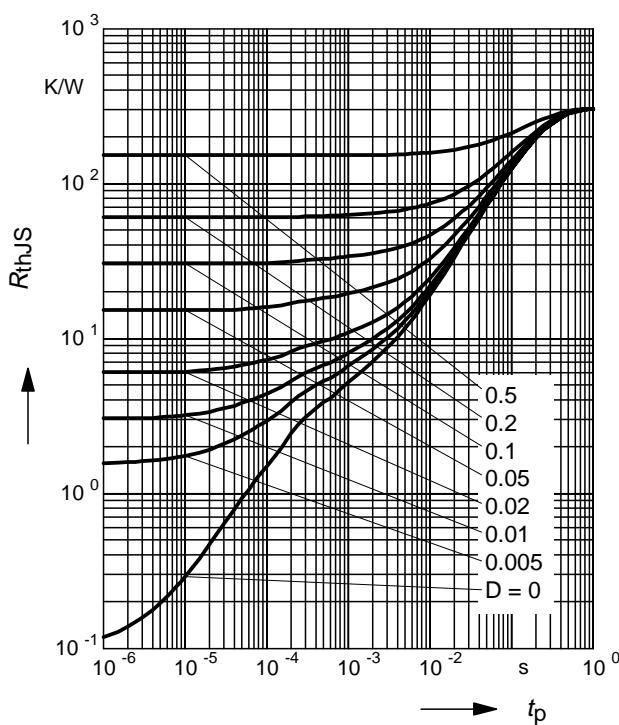
Parameter	Symbol	Values			Unit
		min.	typ.	max.	
<b>DC characteristics</b>					
Breakdown voltage $I_{(BR)} = 500 \mu\text{A}$	$V_{(\text{BR})}$	240	-	-	V
Reverse current $V_R = 200 \text{ V}$ $V_R = 240$	$I_R$	-	5	-	$\mu\text{A}$
Forward voltage $I_F = 10 \text{ mA}$ $I_F = 20 \text{ mA}$ $I_F = 50 \text{ mA}$	$V_F$	-	0.325	-	V
-	-	-	0.37	-	
-	-	-	0.47	-	
<b>AC characteristics</b>					
Diode capacitance $V_R = 10 \text{ V}, f = 1 \text{ MHz}$	$C_T$	-	11.5	-	pF

**Forward current**  $I_F = f(T_A^*; T_S)$

\* Package mounted on epoxy

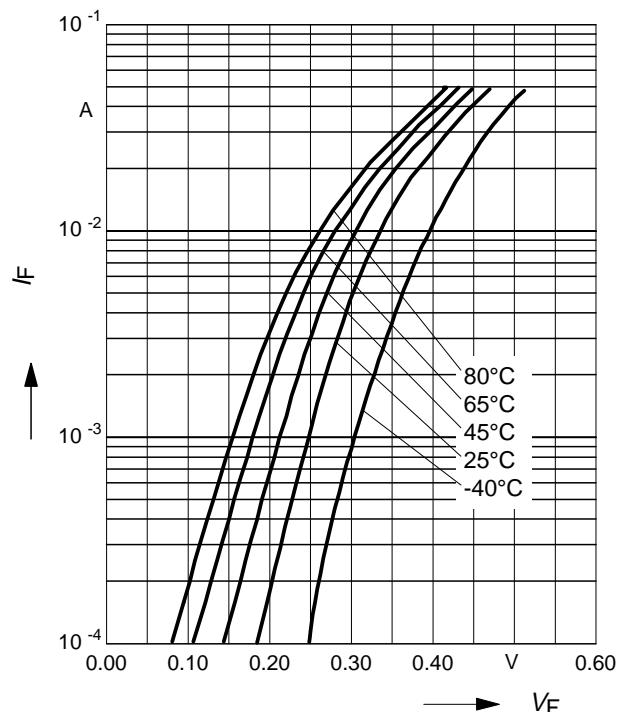


**Permissible Pulse Load**  $R_{thJS} = f(t_p)$



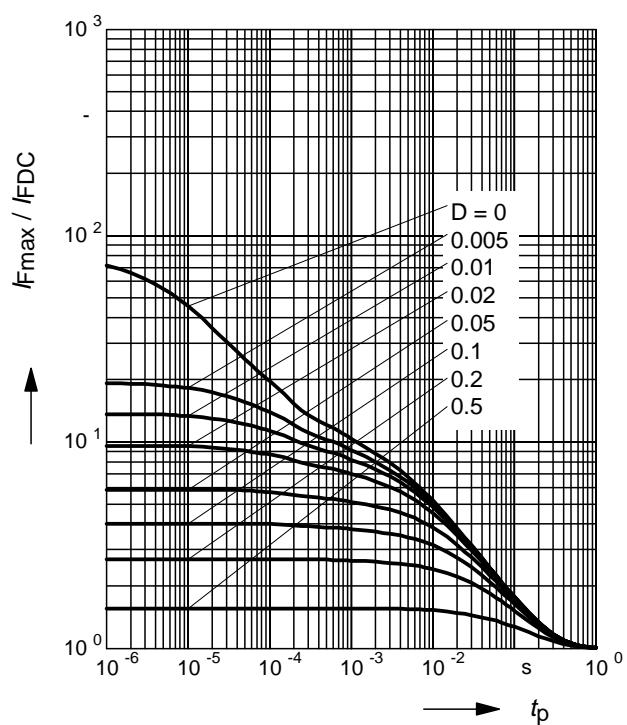
**Forward current**  $I_F = f(V_F)$

$T_A$  = parameter



**Permissible Pulse Load**

$I_{Fmax} / I_{FDC} = f(t_p)$



### Derating curve reverse voltage

$V_R = f(T_A)$ ;  $t_p$  = Parameter

Duty cycle < 0.01

