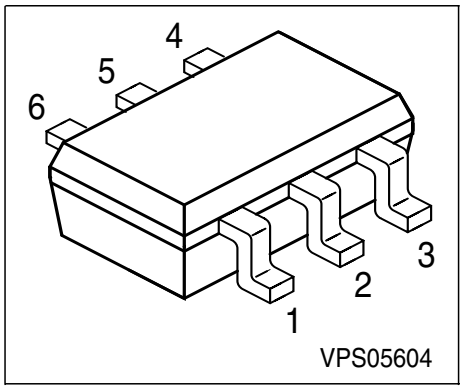
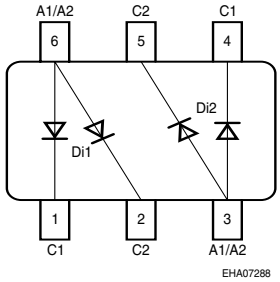
Silicon Schottky Diode Array

- General-purpose diode for high-speed switching
- Circuit protection
- Voltage clamping
- High-level detecting and mixing





Type	Marking	Pin Configuration						Package
BAS 70-06S	76s	1=C1	2=C2	3=A1/A2	4=C1	5=C2	6=A1/A2	SOT-363

Maximum Ratings

Parameter	Symbol	Value	Unit
Diode reverse voltage	V_R	70	V
Forward current	I_F	70	mA
Surge forward current (t < 10ms)	I_{FSM}	100	
Total power dissipation, $T_S \leq 72$ °C	P_{tot}	250	mW
Junction temperature	T_j	150	°C
Operating temperature range	T_{op}	-55 ... 150	
Storage temperature	T_{stg}	-55 ... 150	

Thermal Resistance

Junction - ambient [1)]	R_{thJA}	≤ 545	K/W
Junction - soldering point	R_{thJS}	≤ 310	

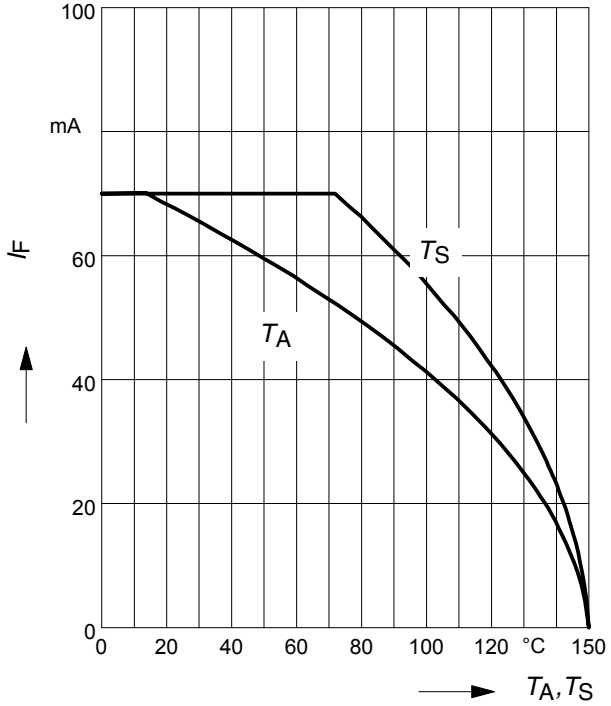
1) Package mounted on epoxy pcb 40mm x 40mm x 1.5mm / 0.5cm^2 Cu

Electrical Characteristics at T_A = 25°C, unless otherwise specified.

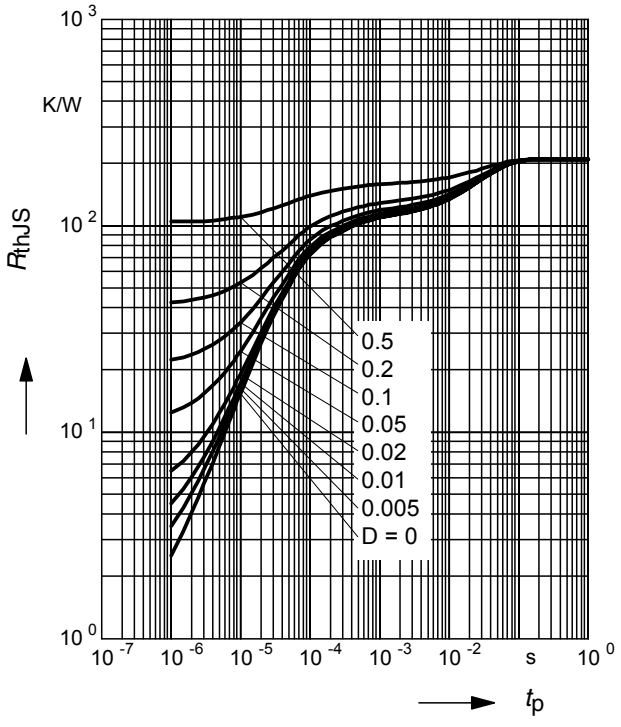
Parameter	Symbol	Values			Unit
		min.	typ.	max.	
DC characteristics					
Breakdown voltage $I_{(BR)}$ = 10 µA	$V_{(BR)}$	70	-	-	V
Reverse current	I_R				µA
V_R = 50 V		-	-	0.1	
V_R = 70 V		-	-	10	
Forward voltage	V_F				mV
I_F = 1 mA		300	375	410	
I_F = 10 mA		600	705	750	
I_F = 15 mA		750	880	1000	
AC characteristics					
Diode capacitance V_R = 0 V, f = 1 MHz	C_T	-	1.6	2	pF
Charge carrier life time I_F = 25 mA	τ	-	-	100	ps
Differential forward resistance I_F = 10 mA, f = 100 MHz	R_F	-	30	-	Ω

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

* Package mounted on epoxy

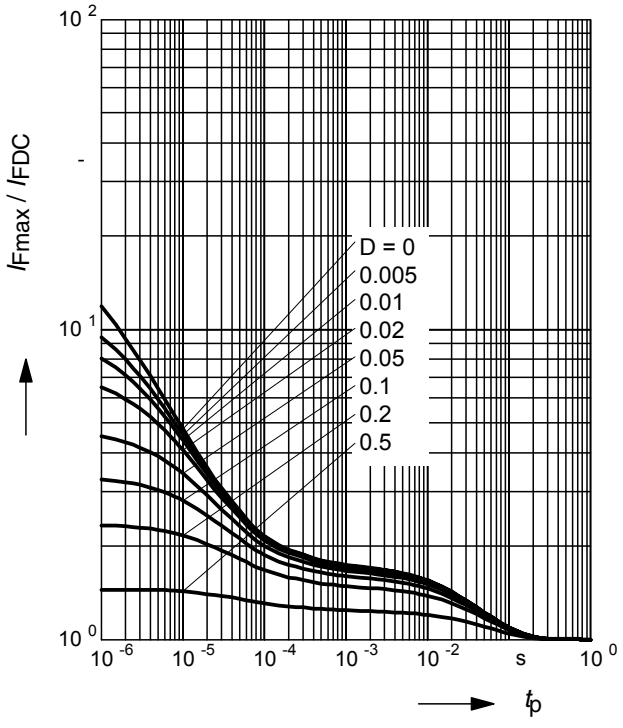


Permissible Pulse Load $R_{thJS} = f(t_p)$



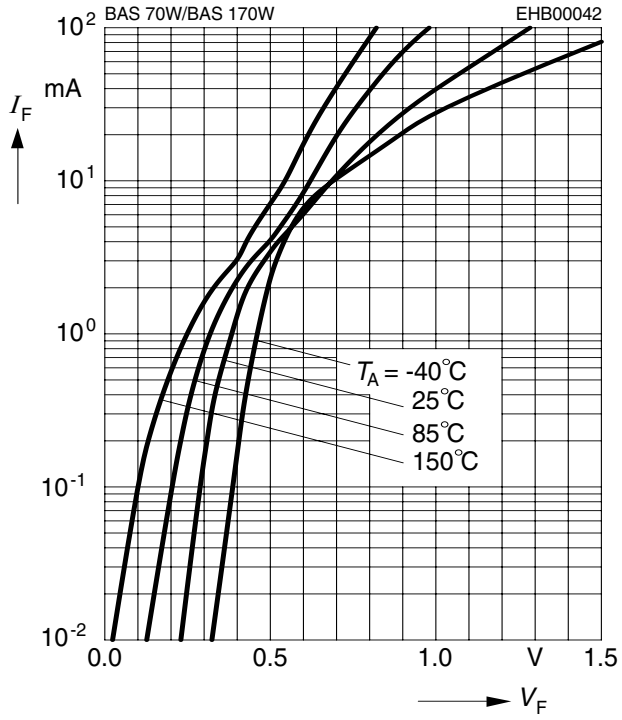
Permissible Pulse Load

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



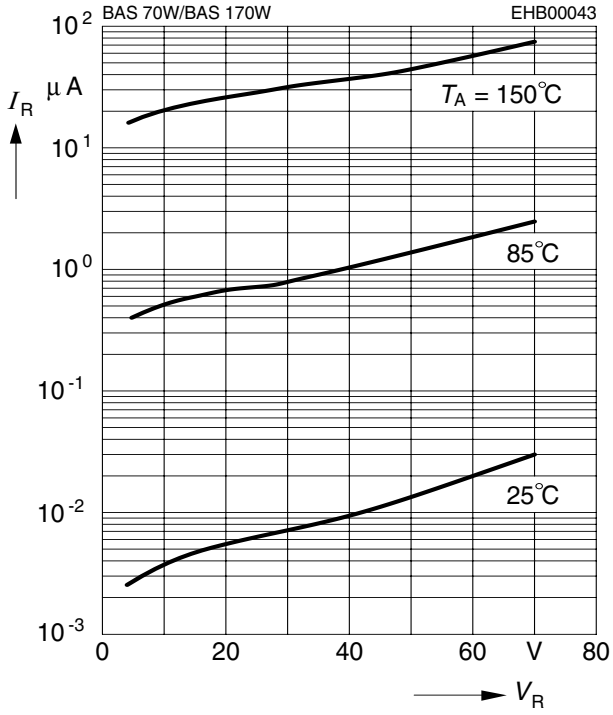
Forward current $I_F = f(V_F)$

T_A = Parameter



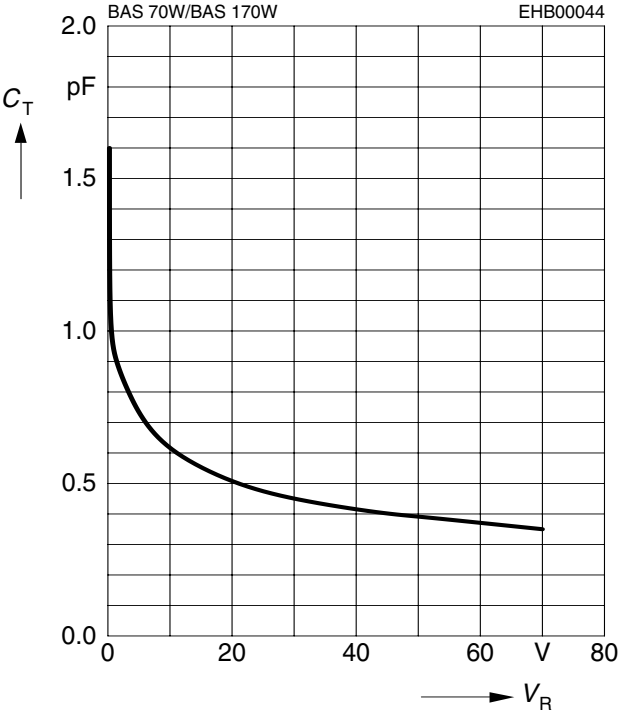
Reverse current $I_R = f(V_R)$

T_A = Parameter



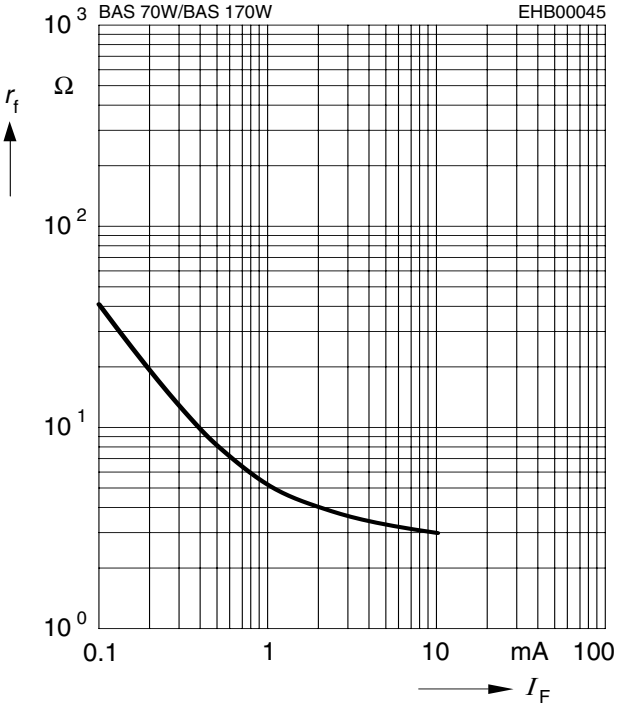
Diode capacitance $C_T = f(V_R)$

f = 1MHz



Differential forward resistance $r_f = f(I_F)$

f = 10 kHz



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