

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

Parameter	Symbol		Unit		
		min.	typ.	max.	
DC Characteristics	•				
Reverse current	I_{R}				nA
V _R = 10 V		-	-	20	
$V_{R} = 10 \text{ V}, T_{A} = 65 ^{\circ}\text{C}$		-	-	200	
AC Characteristics					
Diode capacitance ¹⁾	C _T				pF
$V_{R} = 1 \text{ V}, f = 1 \text{ MHz}$		66	68.7	71.5	
$V_{R} = 2 \text{ V}, f = 1 \text{ MHz}$		33	35.4	38	
$V_{R} = 3 \text{ V}, f = 1 \text{ MHz}$		19.7	20.95	22.2	
$V_{R} = 4.5 \text{ V}, f = 1 \text{ MHz}$		12	12.7	13.5	
Capacitance ratio	C _{T1} /C _{T4.5}	5	5.41	-	
$V_{R} = 1 \text{ V}, V_{R} = 4.5 \text{ V}$					
Series resistance	$r_{\rm S}$	-	0.25	0.4	Ω
$V_{R} = 1 \text{ V}, f = 470 \text{ MHz}$					

2

 $C_{\text{T}}/\text{groups}$ 01 02

 C_{1V} min 66pF 68.5pF C_{1V} max 69pF 71.5pF

Deliveries contain either C_{T} group 01 or group 02 (marked on reel).

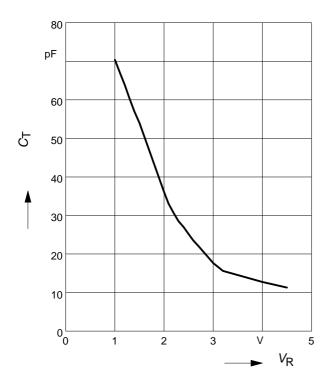
No direct order of C_T groups possible

¹Capacitance groups at 1V, coded 01; 02 (only BBY66-05)

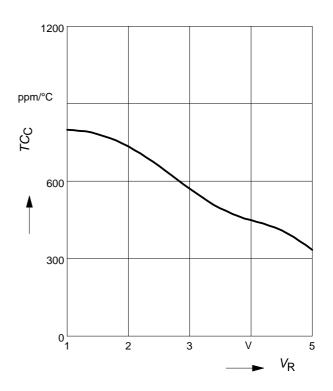


Diode capacitance $C_T = f(V_R)$

f = 1MHz

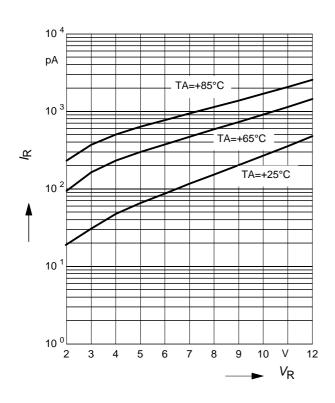


Temperature coefficient of the diode capacitance $T_{Cc} = f(V_R)$



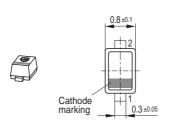
Reverse current $I_R = f(V_R)$

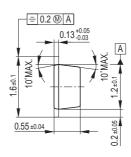
 T_A = Parameter





Package Outline

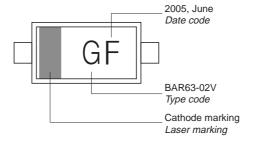




Foot Print



Marking Layout (Example)

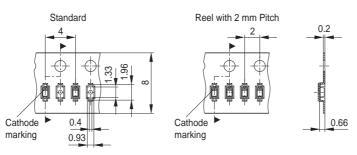


Standard Packing

Reel ø180 mm = 3.000 Pieces/Reel

Reel ø180 mm = 8.000 Pieces/Reel (2 mm Pitch)

Reel ø330 mm = 10.000 Pieces/Reel





Date Code marking for discrete packages with one digit (SCD80, SC79, SC751) CES-Code

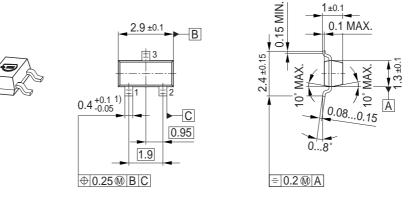
Month	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
01	а	р	Α	Р	а	р	Α	Р	а	р	Α	Р
02	b	q	В	Q	b	q	В	Q	b	q	В	Q
03	С	r	С	R	С	r	С	R	С	r	С	R
04	d	S	D	S	d	S	D	S	d	S	D	S
05	е	t	Е	Т	е	t	Е	Т	е	t	Е	Т
06	f	u	F	U	f	u	F	U	f	u	F	U
07	g	٧	G	V	g	٧	G	V	g	٧	G	V
08	h	Х	Η	Х	h	Х	Н	Х	h	Х	Η	Х
09	j	у	7	Υ	j	у	7	Υ	j	у	J	Υ
10	k	Z	K	Z	k	Z	K	Z	k	Z	K	Z
11	I	2	L	4	ı	2	L	4	I	2	L	4
12	n	3	N	5	n	3	N	5	n	3	N	5

¹⁾ New Marking Layout for SC75, implemented at October 2005.

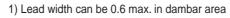
5 2007-04-20

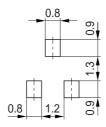


Package Outline

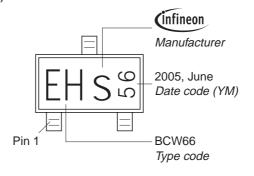


Foot Print



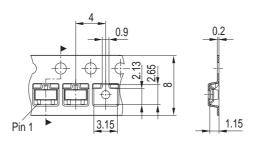


Marking Layout (Example)



Standard Packing

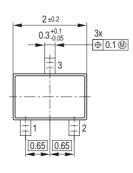
Reel ø180 mm = 3.000 Pieces/Reel Reel ø330 mm = 10.000 Pieces/Reel

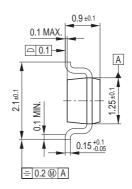




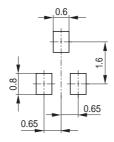
Package Outline



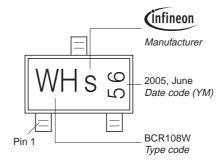




Foot Print

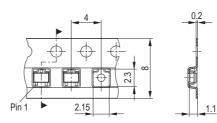


Marking Layout (Example)



Standard Packing

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