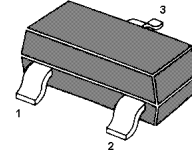
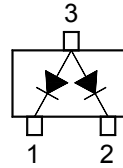


# SDB704CA

## Silicon Epitaxial Planar Schottky Barrier Diode



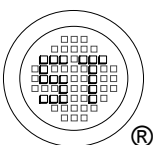
Marking Code: "XY"  
SOT-23 Plastic Package

### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	30	V
Forward Current (Single)	$I_F$	30	mA
Forward Current (Double)		20	
Peak Forward Current (Single)	$I_{FM}$	150	mA
Peak Forward Current (Double)		110	
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 125	$^\circ\text{C}$

### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

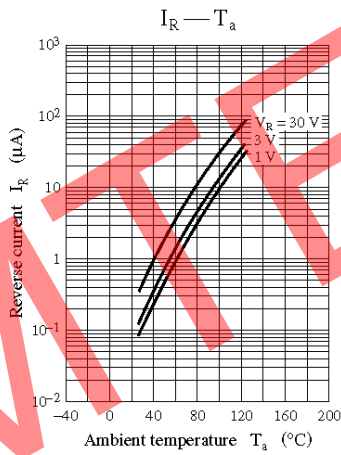
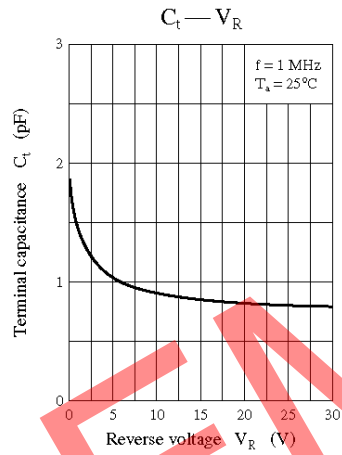
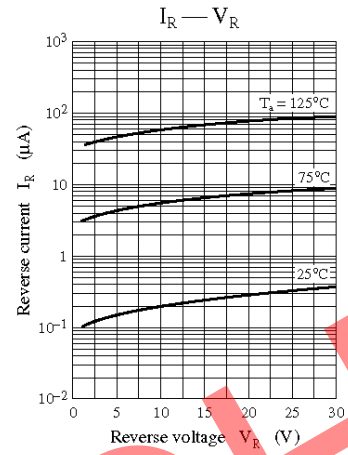
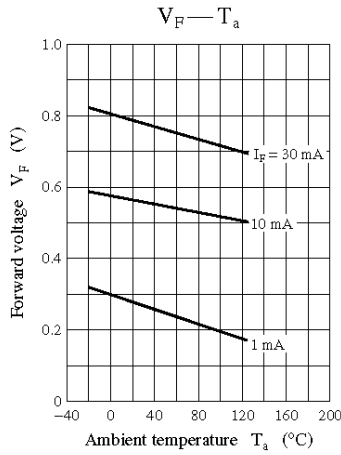
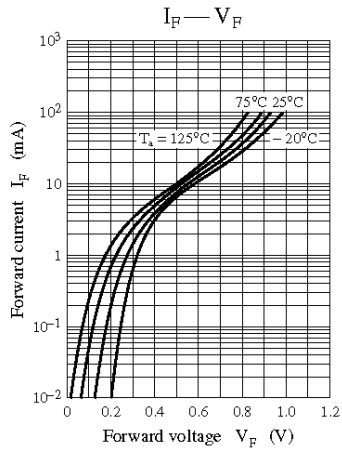
Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 1\text{ mA}$ at $I_F = 30\text{ mA}$	$V_F$	-	0.4	V
		-	1	
Reverse Current at $V_R = 30\text{ V}$	$I_R$	-	1	$\mu\text{A}$
Terminal Capacitance at $V_R = 1\text{ V}$ , $f = 1\text{ MHz}$	$C_t$	2.7	-	pF
Reverse Recovery Time at $I_F = I_R = 10\text{ mA}$ , $I_{rr} = 1\text{ mA}$ , $R_L = 100\ \Omega$	$t_{rr}$	1	-	ns



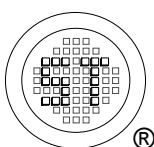
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Dated : 28/04/2007



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