

9097250 TOSHIBA (DISCRETE/OPTO)

67C 09143

D T-27-01

TO-92



Type No.	V <sub>CEO</sub> (V)	I <sub>C</sub> (mA)	P <sub>C</sub> (mW)	h <sub>FE</sub>		V <sub>CE(sat)</sub> MAX.			f <sub>T</sub> TYP.			Cob TYP.			SW Time TYP.		
				V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	I <sub>B</sub> (mA)	MHz	V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	f=1MHz (pF)	V <sub>CB</sub> (V)	t <sub>on</sub> (ns)	t <sub>stg</sub> (ns)	t <sub>f</sub> (ns)	
NPN																	
2SC752 <sup>Ⓢ</sup> TM	15	200	400	40~240	1	10	0.3	20	1	400	10	10	4	10	70	15	30
2SC367 <sup>Ⓢ</sup> TM	30	400	400	70~240	1	100	0.25	100	10	250/180	10	10	10	40	250	30	30
2SC509 <sup>Ⓢ</sup> TM	30	800	600	70~240	2	50	0.5/0.8	500	20	100/140	10	10	11/22	60/50	400	50/40	50/40
2SC372 <sup>Ⓢ</sup> TM	50	150	400	70~240	1	10	0.25/0.4	100	10	200	10	10/1	2/5	50/30	250	30	30
2SC373 <sup>Ⓢ</sup> TM	50	150	400	200~400	1	10	0.25	100	10	200	10	10	2	50	250	30	30
2SC1000 <sup>Ⓢ</sup> TM	50	150	400	200~700	6	2	—	—	—	80	6/10	1	6	—	—	—	—
2SC980 <sup>Ⓢ</sup> TM	50	100	400	70~240	1	10	0.3	10	1	250	10	10	3	25	400	30	30
2SC980A <sup>Ⓢ</sup> TM	70	100	400	120~240	1	10	0.3	10	1	250	10	10	3	25	400	30	30
2SC780A <sup>Ⓢ</sup> TM	150	30	400	70~240	3	10	0.5/1.0	10	1	100	10	2	2/3	0.3μs	3μs	0.4μs	0.4μs
2SC2551	300	100	400	30~150	10	20	0.5	20	2	80/60	10	20	3/6	—	—	—	—
2SC982TM	40	300	400	1000MIN.	2	100	1.3	300	0.3	—	—	—	—	—	—	—	—

**Application**

High Speed SW  
 High Current SW  
 High Current SW  
 General Purpose  
 General Purpose  
 Low Noise  
 High Speed SW  
 High Speed SW  
 High Voltage SW  
 High Voltage SW  
 Darlington

TO-18

**INDUSTRIAL APPLICATIONS TO-18**

Type No.	V <sub>CEO</sub> (V)	I <sub>C</sub> (mA)	P <sub>C</sub> (mW)	h <sub>FE</sub>		V <sub>CE(sat)</sub> MAX.			f <sub>T</sub> TYP.			Cob TYP.			SW Time TYP.		
				V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	I <sub>B</sub> (mA)	MHz	V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	f=1MHz (pF)	V <sub>CB</sub> (V)	t <sub>on</sub> (ns)	t <sub>stg</sub> (ns)	t <sub>f</sub> (ns)	
NPN																	
2SC395A	12	500	300	70~200	1	10	0.25	10	1	400	10	10	4	20	25	15	15
2SC400	20	100	250	60~350/200	1	10	0.4	10	1	300/250	10	10	4/5	25	300/400	30/40	30/40
2SC970	50/40	100	300/250	70/60~240/200	1	10	0.30/0.4	10	1	250	10	10	3/5	25	400	30/40	30/40
2SC1380A	50	100	200	200~700	6	2	—	—	—	80	6	1	6	—	—	—	—
2SC2550	50	200	300	70~400	1	10	0.5/0.3	200/100	20/10	250	10	10	3/4	100/30	400	50/30	50/30
2SC979A	70	100	300	70~140	1	10	0.3	10	1	250	10	10	3	25	400	30	30

**Application**

Ultra High Speed SW  
 High Speed SW  
 General Purpose  
 Low Noise  
 General Purpose  
 High Speed SW

**7. INDUSTRIAL APPLICATIONS TO-92**