

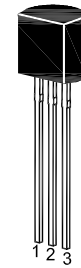
# ST 2SC3279

## NPN Silicon Epitaxial Planar Transistor

for storobo flash and medium power amplifier applications.

The transistor is subdivided into four groups L, M, N and P, according to its DC current gain.

On special request, these transistors can be manufactured in different pin configurations.



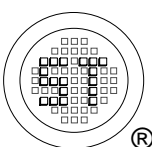
1. Emitter 2. Collector 3. Base  
TO-92 Plastic Package

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

Parameter	Symbol	Value	Unit
Collector Base Voltage	$V_{CBO}$	30	V
Collector Emitter Voltage	$V_{CES}$	30	V
Collector Emitter Voltage	$V_{CEO}$	10	V
Emitter Base Voltage	$V_{EBO}$	5	V
Collector Current (DC)	$I_C$	2	A
Collector Current (Pulse Width = 10 ms)	$I_{CP}$	5	A
Base Current	$I_B$	0.2	A
Power Dissipation	$P_{tot}$	750	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	
DC Current Gain at $V_{CE} = 1\text{ V}$ , $I_C = 500\text{ mA}$  at $V_{CE} = 1\text{ V}$ , $I_C = 2\text{ A}$  Current Gain Group	L	$h_{FE}$	140	-	240	-
	M	$h_{FE}$	200	-	330	-
	N	$h_{FE}$	300	-	450	-
	P	$h_{FE}$	420	-	600	-
			$h_{FE}$	70	200	-
Collector Base Cutoff Current at $V_{CB} = 30\text{ V}$	$I_{CBO}$	-	-	0.1	$\mu\text{A}$	
Emitter Base Cutoff Current at $V_{EB} = 6\text{ V}$	$I_{EBO}$	-	-	0.1	$\mu\text{A}$	
Collector-Emitter Breakdown Voltage at $I_C = 10\text{ mA}$	$V_{(BR)CEO}$	10	-	-	V	
Emitter Base Breakdown Voltage at $I_E = 1\text{ mA}$	$V_{(BR)EBO}$	6	-	-	V	
Collector Emitter Saturation Voltage at $I_C = 2\text{ A}$ , $I_B = 50\text{ mA}$	$V_{CE(sat)}$	-	0.2	0.5	V	
Base Emitter Voltage at $V_{CE} = 1\text{ V}$ , $I_C = 2\text{ A}$	$V_{BE}$	-	0.86	1.5	V	
Collector Output Capacitance at $V_{CB} = 10\text{ V}$ , $f = 1\text{ MHz}$	$C_{ob}$	-	27	-	pF	
Transition Frequency at $V_{CE} = 1\text{ V}$ , $I_C = 0.5\text{ A}$	$f_T$	-	150	-	MHz	



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