

Medium Power Transistor (25V, 1.2A)

2SD2537

●Features

- 1) High DC current gain.
- 2) High emitter-base voltage, $V_{EB0}=12V$.
- 3) Low saturation voltage, $V_{CE(sat)}=0.3V$ (Max.) at $I_C/I_E=500mA/10mA$.

●Packaging specifications and h_{FE}

Type	2SD2537
Package	MPT3
h_{FE}	VW
Marking	DV*
Code	T100
Basic ordering unit (pieces)	1000

* Denotes h_{FE}

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV_{CBO}	30	—	—	V	$I_C=10\mu A$
Collector-emitter breakdown voltage	BV_{CEO}	25	—	—	V	$I_C=1mA$
Emitter-base breakdown voltage	BV_{EBO}	12	—	—	V	$I_E=10\mu A$
Collector cutoff current	I_{CBO}	—	—	0.3	μA	$V_{CB}=30V$
Emitter cutoff current	I_{EBO}	—	—	0.3	μA	$V_{EB}=12V$
Collector-emitter saturation voltage	$V_{CE(sat)}$	—	—	0.3	V	$I_C/I_E=500mA/10mA$
DC current transfer ratio	h_{FE}	820	—	2700	—	$V_{CE}/I_C=5V/0.5A$
Transition frequency	f_T	—	200	—	MHz	$V_{CE}=10V, I_E=-50mA, f=100MHz$
Output capacitance	C_{OB}	—	20	—	pF	$V_{CB}=10V, I_E=0A, f=1MHz$

* Measured using pulse current.

(94L-1061-D212)

General Purpose Transistor (50V, 0.15A)

2SD2351 / 2SD2226K / 2SD2227S

●Features

- 1) High DC current gain.
- 2) High emitter-base voltage, $V_{EB0}=12V$.
- 3) Low saturation voltage, typically $V_{CE(sat)}=0.3V$ at $I_C/I_E=50mA/5mA$.

●Packaging specifications and h_{FE}

Type	2SD2351	2SD2226K	2SD2227S
Package	UMT3	SMT3	SPT
h_{FE}	VW	VW	W
Marking	BJ*	BJ*	—
Code	T106	T146	TP
Basic ordering unit (pieces)	3000	3000	5000

* Denotes h_{FE}

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV_{CBO}	60	—	—	V	$I_C=10\mu A$
Collector-emitter breakdown voltage	BV_{CEO}	50	—	—	V	$I_C=1mA$
Emitter-base breakdown voltage	BV_{EBO}	12	—	—	V	$I_E=10\mu A$
Collector cutoff current	I_{CBO}	—	—	0.3	μA	$V_{CB}=50V$
Emitter cutoff current	I_{EBO}	—	—	0.3	μA	$V_{EB}=12V$
Collector-emitter saturation voltage	$V_{CE(sat)}$	—	—	0.3	V	$I_C/I_E=50mA/5mA$
DC current transfer ratio	h_{FE}	560	—	2700	—	$V_{CE}/I_C=5V/1mA$
transfer ratio	2SD2351, 2SD2226K	1200	—	2700	—	$V_{CE}/I_E=5V/1mA$
2SD2227S						
Transition frequency	f_T	—	250	—	MHz	$V_{CE}=5V, I_E=-10mA, f=100MHz$
Output capacitance	C_{OB}	—	3.5	—	pF	$V_{CB}=5V, I_E=0A, f=1MHz$

* Measured using pulse current.

(94S-374-D215)