DMR935E2

Silicon PNP epitaxial planar type (Tr) Silicon epitaxial planar type (CCD load device)

For CCD output circuits

Features

- \bullet High transition frequency f_{T}
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

Packaging

DMR935E20R Embossed type (Thermo-compression sealing): 8000 pcs / reel (standard)

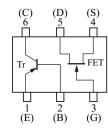
Absolute Maximum Ratings $T_a = 25^{\circ}C$

	Parameter	Symbol	Rating	Unit
Tr1	Collector-base voltage (Emitter open)	V _{CBO}	-24	V
	Collector-emitter voltage (Base open)	V _{CEO}	-20	V
	Emitter-base voltage (Collector open)	V _{EBO}	-3	V
	Collector current	I _C	-50	mA
CCD	Limiting element voltage	V _{max}	40	V
load device	Limiting element current	I _{max}	10	mA
Overall	Total power dissipation *	P _T	125	mW
	Junction temperature	Tj	150	°C
	Storage temperature	T _{stg}	-55 to +150	°C

Package

- Code
 SSMini6-F3-B
 Package dimension clicks here.→
- Pin Name
 - 1: Emitter4: Source2: Base5: Drain3: Gate6: Collector
- Marking Symbol: X5

Internal Connection



Note) *: Measuring on substrate at 17 mm \times 10 mm \times 1 mm

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

• Tr1

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -100 \ \mu {\rm A}, I_{\rm E} = 0$	-24			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 \ \mu A, I_{\rm C} = 0$	-3			V
Base-emitter voltage	V _{BE}	$V_{CE} = -10 \text{ V}, I_C = -2 \text{ mA}$		720		mV
Forward current transfer ratio	h _{FE}	$V_{CE} = -10 \text{ V}, I_C = -2 \text{ mA}$	100		250	_
Transition frequency	f _T	$V_{CE} = -10 \text{ V}, I_C = -2 \text{ mA}$		1 400		MHz

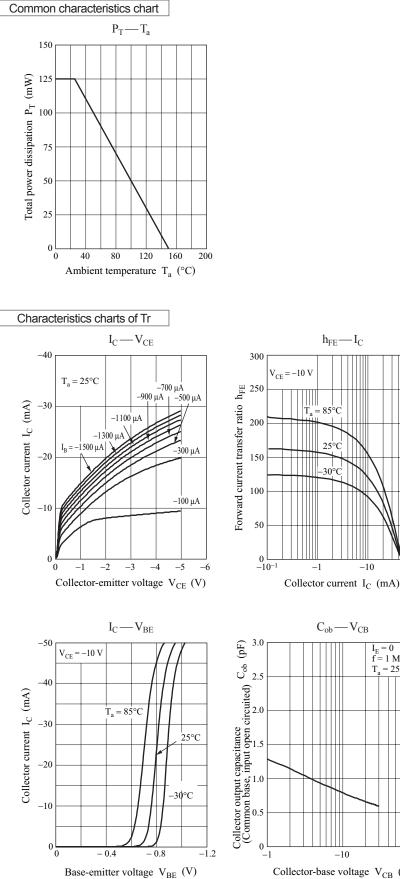
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors. 2. *: Pulse measurement

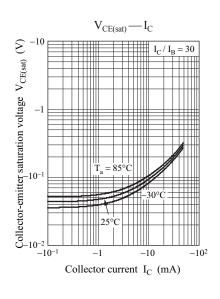
CCD load device

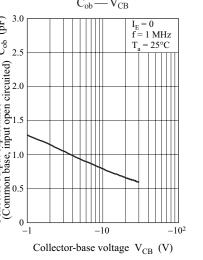
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Pinchi off current	I_P	$V_{\rm DS} = 8 {\rm V}, {\rm V}_{\rm G} = 0$	5.0		7.0	mA
Output impedance	Z _O	$V_{\rm DS} = 8 {\rm V}, {\rm V}_{\rm G} = 0$		0.02		μΩ

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

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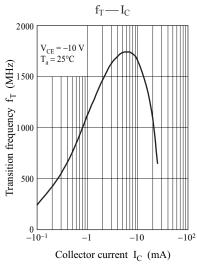






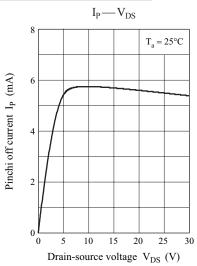
-10

 -10^{2}



Panasonic

Characteristics charts of CCD



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