SBT700-06RH

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Schottky Barrier Diode

60V, 70A, VF; 0.66V Dual To-3PF-3L Cathode Common

Applications

· High frequency rectification (switching regulators, converters, choppers)

Features

- Guaranteed up to Tj=150°C
- · Fast reverse recovery time
- · High reliability due to highly reliable planar structure
- · Low forward voltage (VF max=0.66V)
- · Low switching noise

Specifications

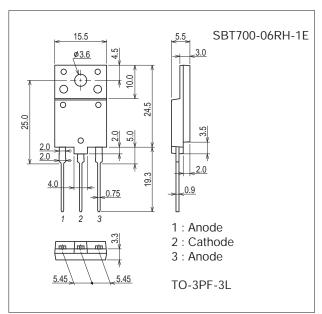
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		60	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		66	V
Average Output Current	I _O	50Hz resistive load, Sine wave Tc=44°C	70	А
Surge Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	200	Α
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit: mm (typ) 7538A-003



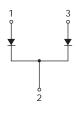
Ordering & Package Information

Device	Package	Shipping	memo	
SBT700-06RH-1E	TO-3PF-3L SC-94	30pcs./tube	Pb-Free	

Marking



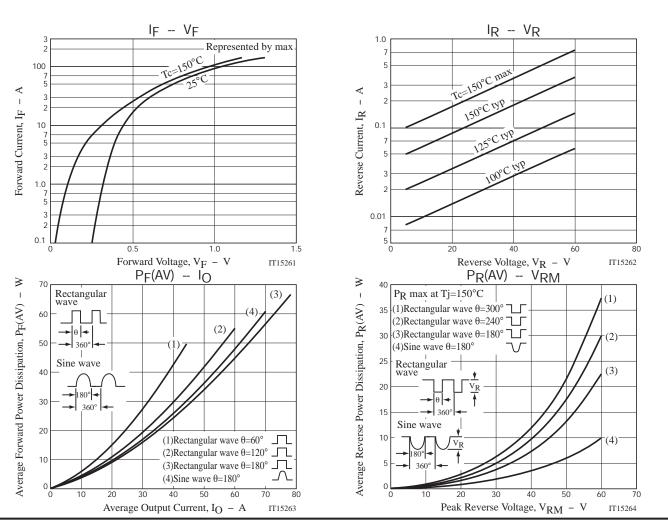
Electrical Connection

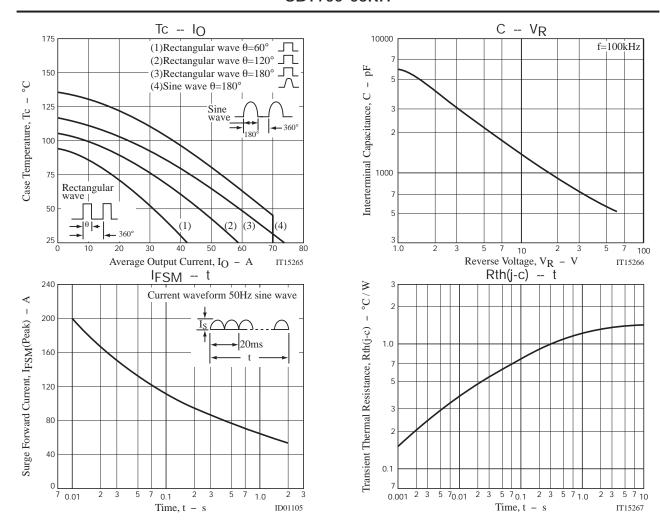


Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	OTHE
Reverse Voltage	VR	I _R =10mA, Tc=25°C *	60			V
Forward Voltage	VF	I _F =30A, Tc=25°C *			0.66	V
Reverse Current	IR	V _R =30V, Tc=25°C *			1	mA
Interterminal Capacitance	С	V _R =10V, Tc=25°C *, f=100kHz		1400		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			1.5	°C / W

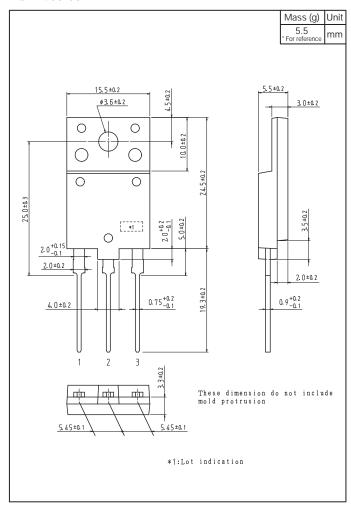
Note) * : Value per element.





Outline Drawing

SBT700-06RH-1E



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