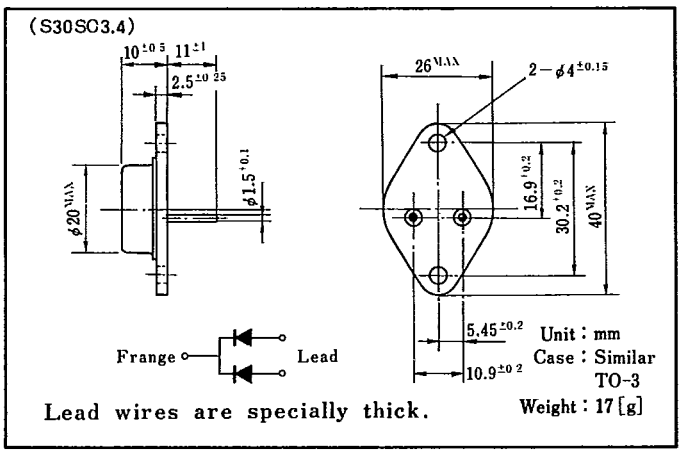
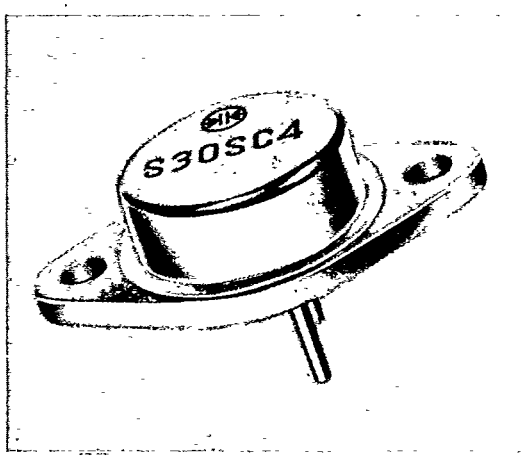
S30SC 30V 40V

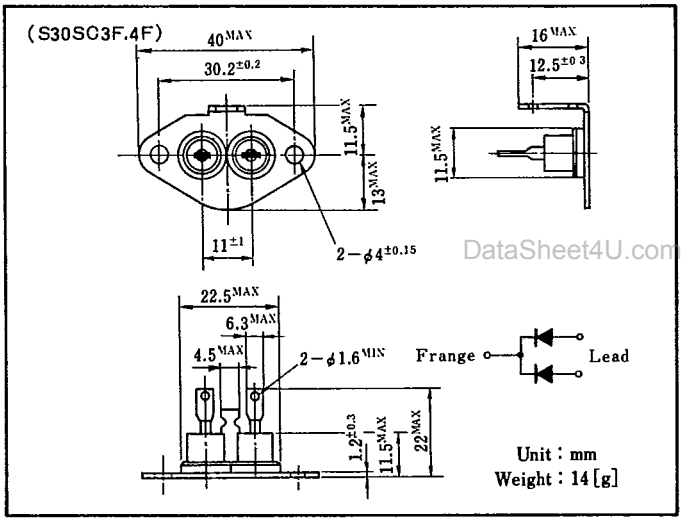
30A

Dual Schottky Diode

●Outline Dimensions





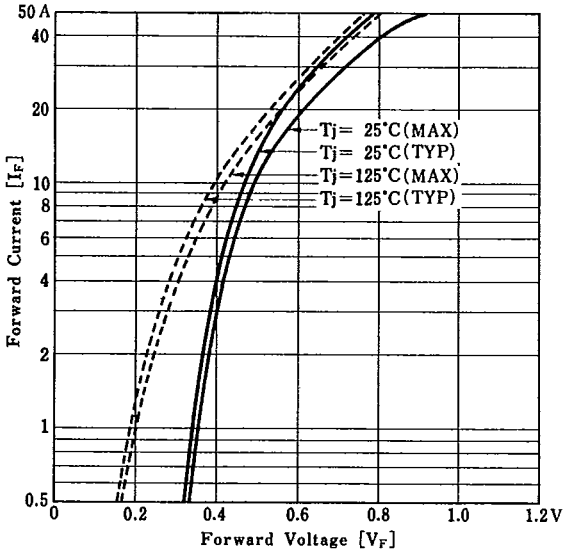


●Ratings

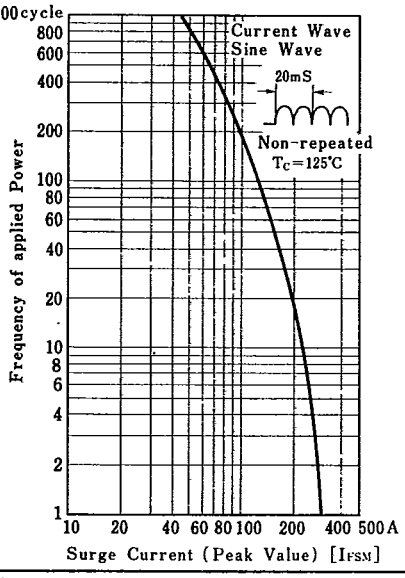
Characteristics		Symbol	Test Condition \ Type	S30SC3 / S30SC3F	S30SC4 / S30SC4F	Unit
Absolute MAX. Ratings	Storage Temeperature Range	Tstg		−55～+125		℃
	Junction Temperature	Tj		+125		℃
	Peak Reverse Voltage	V_{RM}		30	40	V
	Repetitive Peak Surge Voltage	V_{RRSM}	Pulse Widrh 0.5mS Duty Cycle 1/40	35	45	V
	Average Rectified Current	Io	50Hz Resistive load	30 (Tc=100℃)		A
	Surge Current	I_{FSM}	One-cycle Peak Value, 50Hz, Tc=125℃	300		A
	Stud torque			10		kg-cm
Electrical Characteristics	Forward Voltage Drop	V_F	Tj=25℃, I_F=15A	MAX 0.55		V
			Tj=25℃, I_F=45A	MAX 0.85		
	Reverse Current	I_R	Tj=25℃ at V_{RM}	MAX 15		mA
			Tj=125℃ at V_{RM}	MAX 100		
	Reverse Recovery Time	trr	Tj=25℃, I_F=15A $-dI_F/dt$=10A/μS	MAX 150		nS
	Thermal Resistance	θjc	Junction to Case	MAX 1.1		℃/W

Characteristic Diagrams

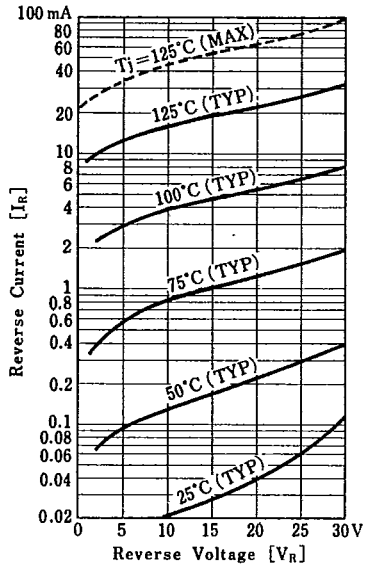
Forward Instantaneous Characteristics



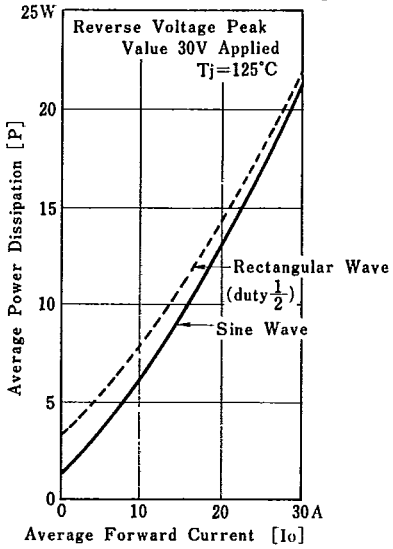
Overcurrent Capacity



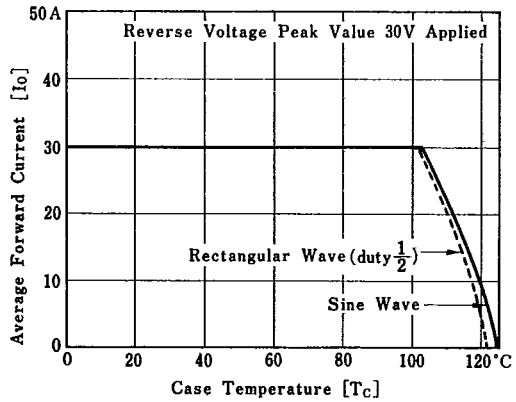
Reverse Instantaneous Characteristics



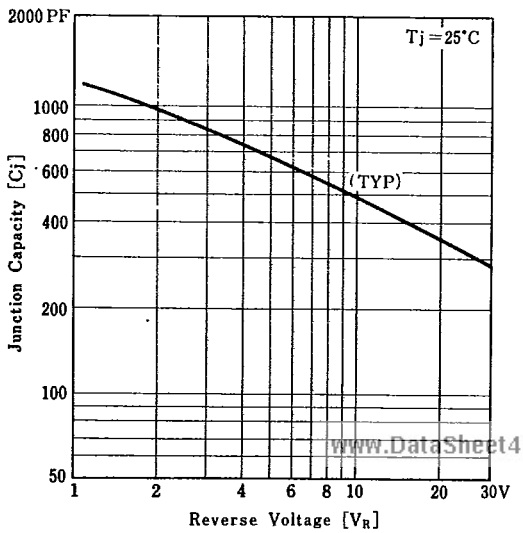
Average Forward Current vs Power Dissipation



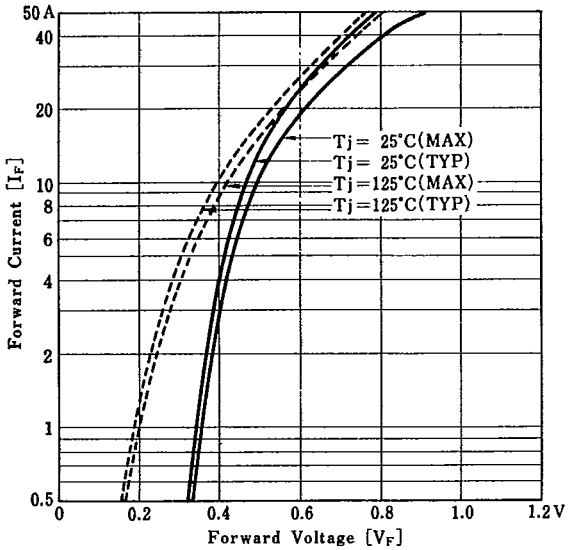
Case Temperature vs Average Forward Current



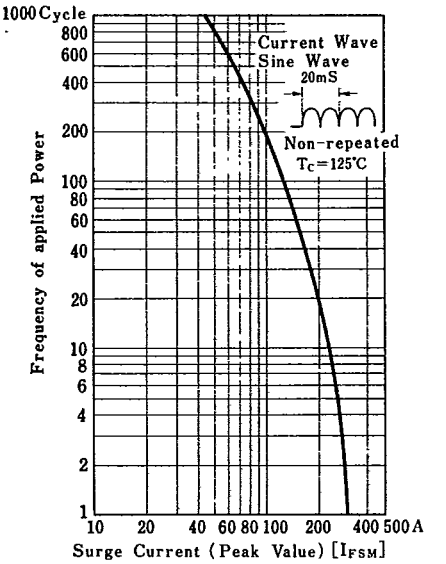
Junction Capacity



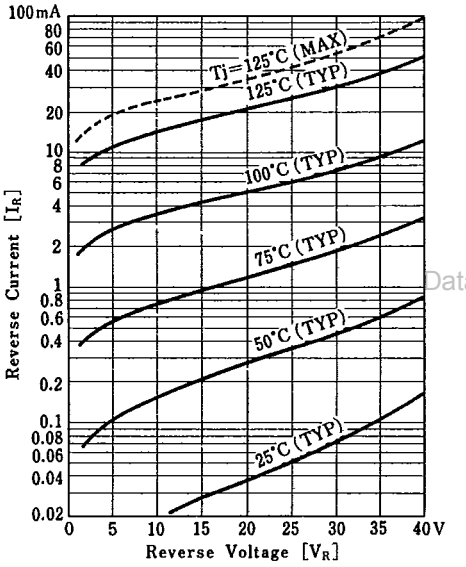
●Forward Instantaneous Characteristics



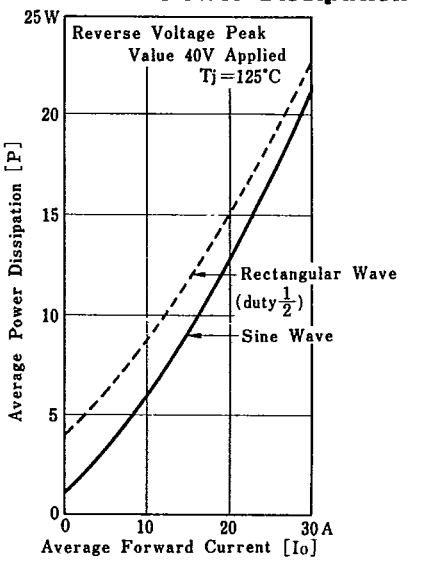
●Overcurrent Capacity



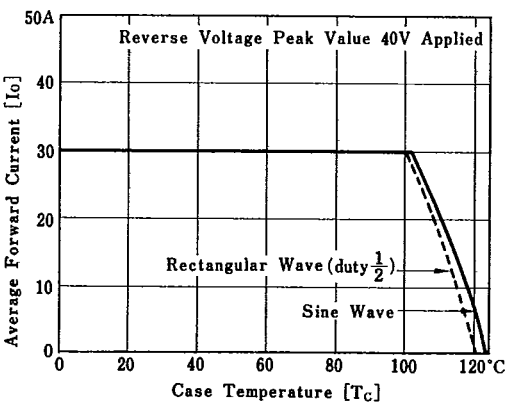
●Reverse Instantaneous Characteristics



●Average Forward Current vs Power Dissipation



●Case Temperature vs Average Forward Current



●Junction Capacity