Schottky Barrier Diode

SB05-03C

30V, 500mA Rectifier

Applications

- Universal-use rectifier.
- High frequency rectification (switching regulators, converters, choppers).

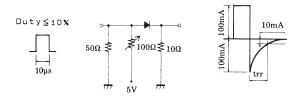
Features

- Low forward voltage (V_F max=0.55V).
- Fast reverse recovery time (trr max=10ns).
- · Low switching noise
- Low leakage current and high reliability due to highly reliable planar structure.
- Small-sized package, permitting applied sets to be compact and slim.

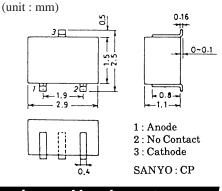
Absolute Maximum Ratings at Ta=25°C					unit	
Repetitive Peak Reverse Voltage	V _{RRM}			30	V	
Nonrepetitive Peak Reverse	V _{RSM}			35	V	
Surge Voltage						
Average Output Current	Io			500	mA	
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle		5	А	
Junction Temperature	Tj		-55 to -	+125	°C	
Storage Temperature	Tstg		-55 to +125		°C	
Electrical Characteristics at Ta=25°C			min	typ	max	unit
Reverse Voltage	VR	$I_R=150\mu A$	30			V
Forward Voltage	VF	IF=500mA			0.55	V
Reverse Current	IR	V _R =15V			30	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		16		pF
Reverse Recovery Time	trr	$I_{F}=I_{R}=100$ mA,			10	ns
		See specified Test Circuit.				
Thermal Resistance	Rthj-a			560		°C/W

Marking : Q

trr Test Circuit

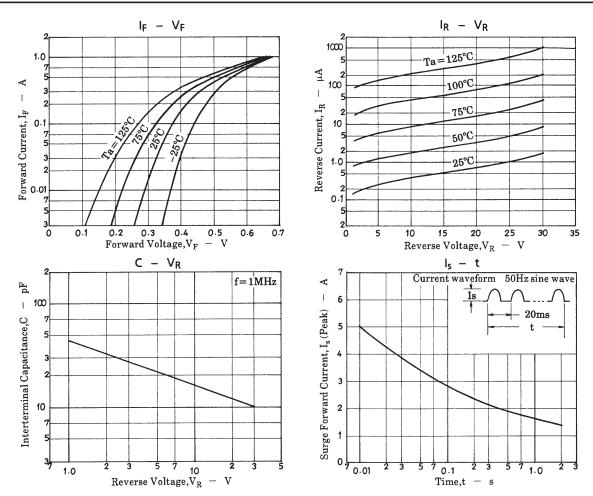


Package Dimensions 1148A



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