20A-30A,100V~200V SCHOTTKY BARRIER RECTIFIERS

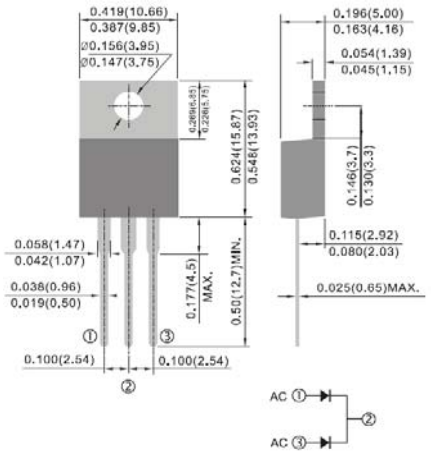
Features

- ♦ Low Power loss,high efficiency
- ♦ Fast switching,high frequency
- ♦ High current capability
- ♦ Lead-Free, RoHS Compliant

Description

- ♦ Low Voltage High Frequency Invers Circuit
- ♦ Low Voltage Continued Circuit and Protection Circuit
- ♦ Low Voltage,High Frequency Switching Power Supply

TO-220AB Package Outline



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient Temperature unless otherwise specified.Single phase,half wave,60Hz,resistive or inductive load.For capacitive load.derate current by 20%.

SYMBOL	PARAMETER	VSD20100A	VSD30100A	VSD20150A	VSD20200A	UNITS
V_{RRM}	Maximum Recrrent Peak Reverse Votlage	100	100	150	200	V
V_{DC}	Maximum DC Breakdown Voltage	100	100	150	200	V
$I_{F(AV)}$	Maximum An Voltage	20	30	20	20	A
I_{FSM}	Peak Forward Surge Current: single half sine-wace superimposed on rated load(JEDEC method)	150	200	150	150	A
V_F	Maximum Forward Voltage	0.85	0.85	0.95	1.05	V
I_R	Maximum DC Reserve Current	50	50	50	50	uA
$R_{\theta JC}$	Typical Thermal Resistance	-65~175				°C

Order Imformation

Product	Marking	Package	Packaging	Min Unit Quantity
VSD30100A	VS30100A	TO-220AB	50EA/Tube	1000EA
VSD20100A	VS20100A	TO-220AB	50EA/Tube	1000EA
VSD20150A	VS20150A	TO-220AB	50EA/Tube	1000EA
VSD20200A	VS20200A	TO-220AB	50EA/Tube	1000EA

Typical Characteristics

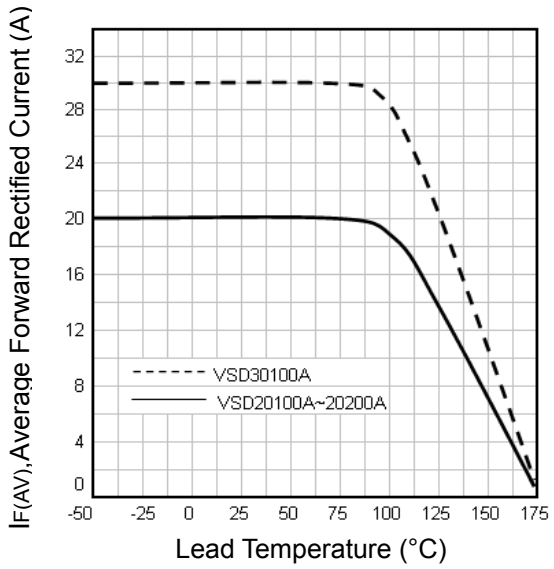


Fig1. Typical Forward Current Derating Curve

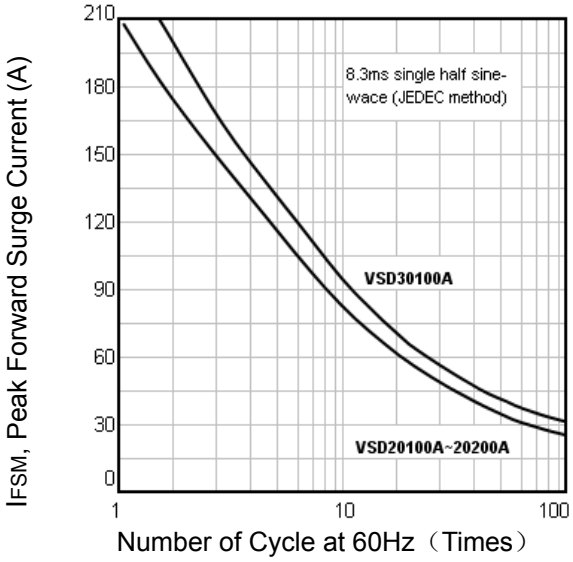


Fig2. Maxium Repetitive Surge Current

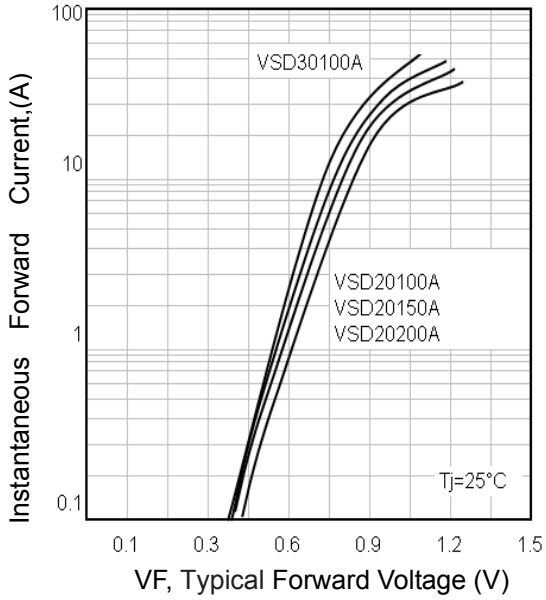


Fig3. Typical Forward Voltage Characteristic

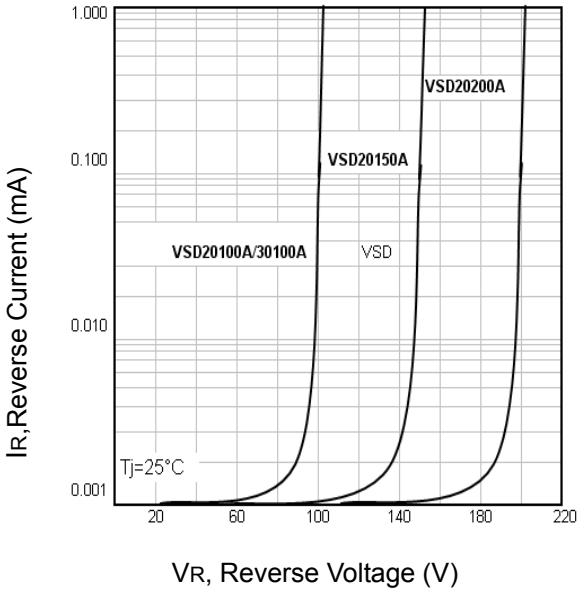


Fig4. Typical Breakdown Voltage Curve