

High Voltage Power Schottky Rectifier

(Pb) Lead(Pb)-Free

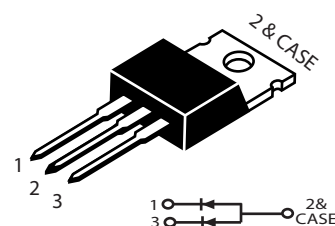
Features:

- *Plastic Package Has Underwriters Laboratory Flammability Classifications 94V-0.
- *Metal Silicon Junction, Majority Carrier Conduct.
- *Low Reverse Leakage Current.
- *Avalanche Capability Specified

**HIGH VOLTAGE
SCHOTTKY
6 AMPERES
200 VOLTS**

Mechanical Data:

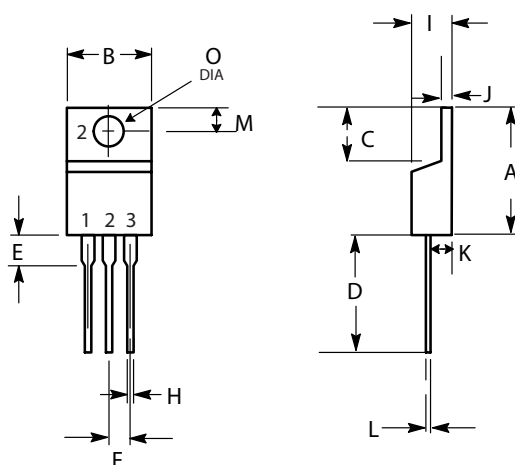
- *Case: JEDEC TO-220AB Molded Plastic Body.
- *Terminals: Plastic Leads, Solderable per MIL-STD-750, Meldod 2026.
- *High Temperature Soldering Guaranteed: 250°C/10 seconds, 0.25" (6.35mm) from Case.
- *Polarity: As Marked
- *Mounting Position: Any
- *Mounting Torque: 10 in-lbs Maximum
- *Weight: 2.24grams



TO-220AB

TO-220AB Outline Dimensions

Unit:mm



TO-220AB		
Dim	Min	Max
A	14.68	15.32
B	9.78	10.42
C	5.02	6.52
D	13.06	14.62
E	3.57	4.07
F	2.42	2.66
H	0.72	0.96
I	4.22	4.98
J	1.14	1.36
K	2.20	2.97
L	0.33	0.55
M	2.48	2.98
O	3.70	3.90

Maximum Rating

Characteristic	Symbol	Value	UNIT
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	200	V
Average Rectifier Forward Current at $T_C=125^{\circ}\text{C}$ per Diode per Device	$I_F(AV)$	3 6	A
Non-Repetitive Peak Square Current (Surge Applied at Rated Load Condition Halfwave, Single Phase, 60Hz)	I_{FSM}	75	A
Maximum Thermal Resistance, Junction to Case	$R_{\theta JC}$	3.0	$^{\circ}\text{C/W}$
Voltage Rate of Change(rated V_R)	dv/dt	1000	V/us
Operating Junction Temperature Range	T_J	-65 to + 150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-65 to + 150	$^{\circ}\text{C}$

Electrical Characteristic (1) (per Diode)

Characteristic	Symbol	Value	UNIT
Maximum Instantaneous Forward Voltage at $I_F=3\text{A}, T_C=25^{\circ}\text{C}$ at $I_F=3\text{A}, T_C=125^{\circ}\text{C}$	V_F	0.95 0.85	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C=25^{\circ}\text{C}$) (Rated DC Voltage, $T_C=125^{\circ}\text{C}$)	I_R	0.1 5.0	mA

Device Marking

WSB06200AT=D0620

Note:

1. Pulse test: 300us pulse width, 1% duty cycle

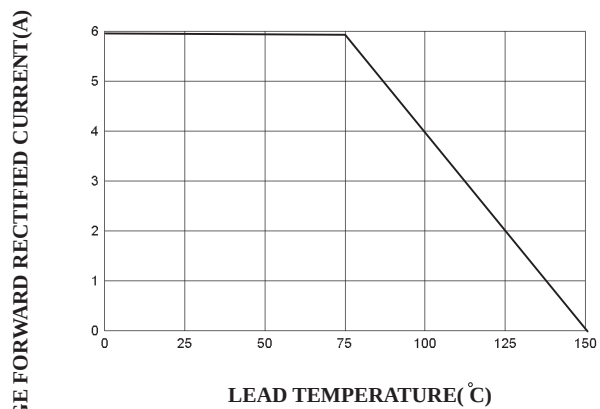


FIG.1 Forward Current Derating Curve

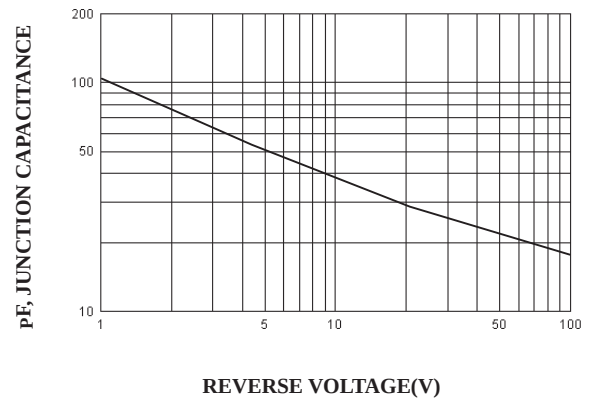


FIG.2 Typical Junction Capacitance

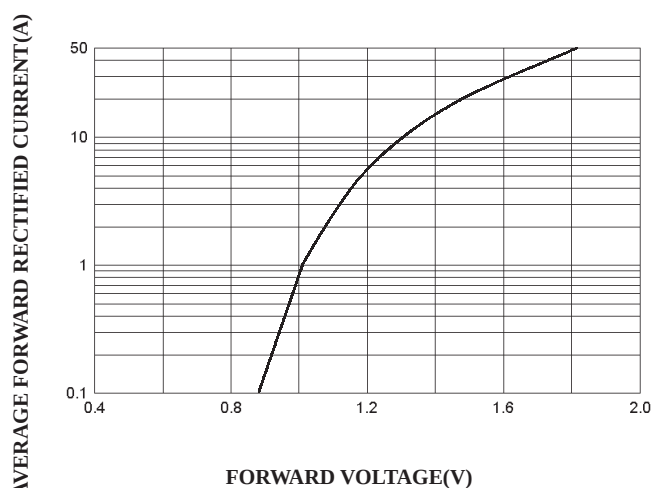


FIG.3 Typical Forward Characteristics

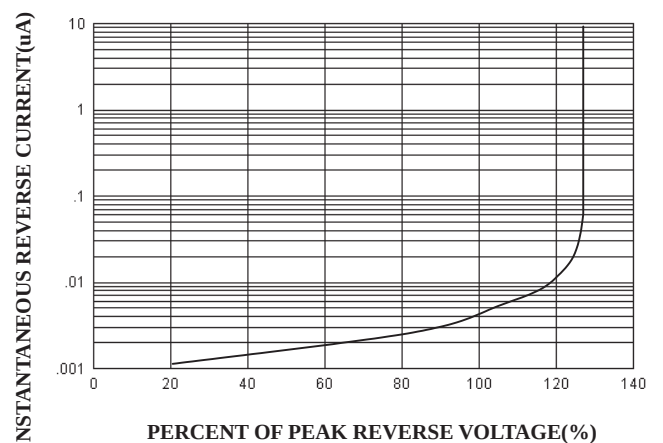


FIG.4 Typical Reverse Characteristics

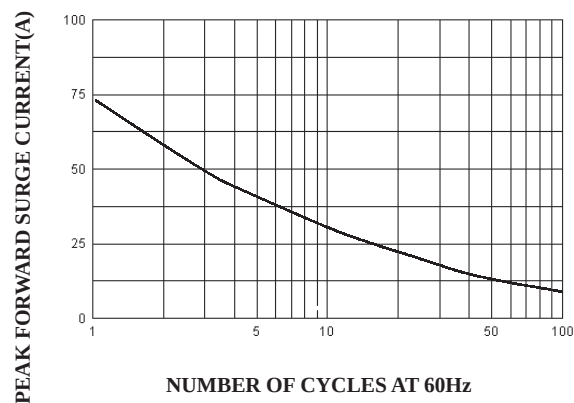


FIG.5 Peak Forward Surge Current