WEITRON

WSB06200AT

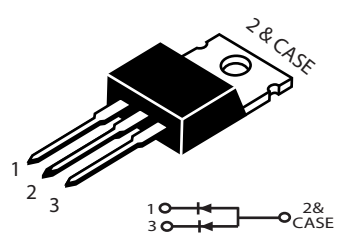
High Voltage Power Schottky Rectifier

Lead(Pb)-Free

HIGH VOLTAGE
SCHOTTKY
6 AMPERES
200 VOLTS

Features:

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



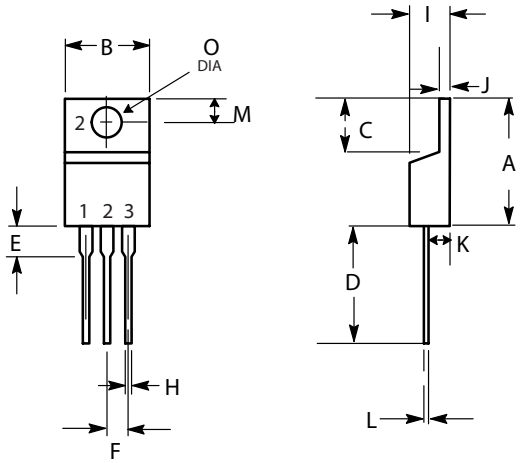
TO-220AB

Mechanical Data:

*Case: JEDEC TO-220AB Molded Plastic Body.
*Terminals: Plastic Leads, Solderable per MIL-STD-750, Meldod 2026.
*High Temperature Soldering Guaranteed: 250℃/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 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 Tc=125°C per Diode per Device	$I_{F(AV)}$	 3 6	A
Non-Repetitive Peak Square Current (Surge Applied atRated Load Condition Halfware, Single Phase, 60Hz)	I_{FSM}	75	A
Maximum Thermal Resistance, Junction to Case	$R_{\theta JC}$	3.0	°C/W
Voltage Rate of Change(rated V_R)	dv/dt	1000	V/us
Operating Junction Temperature Range	T_J	-65 to + 150	°C
Storage Temperature Range	T_{STG}	-65 to + 150	°C

Electrical Characteristic (1) (per Diode)

Characteristic	Symbol	Value	UNIT
Maximum Instanatneous Forward Voltage at I_F=3A, T_C=25°C at I_F=3A, T_C=125°C	V_F	 0.95 0.85	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, Tc=25°C) (Rated DC Voltage, Tc=125°C)	I_R	 0.1 5.0	mA

Device Marking

WSB06200AT=D0620

Note:

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

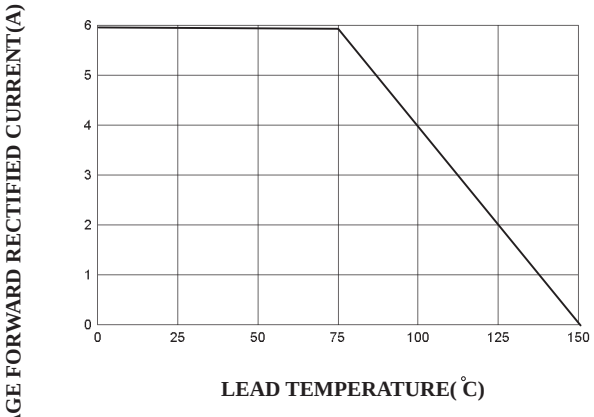


FIG.1 Forward Current Derating Curve

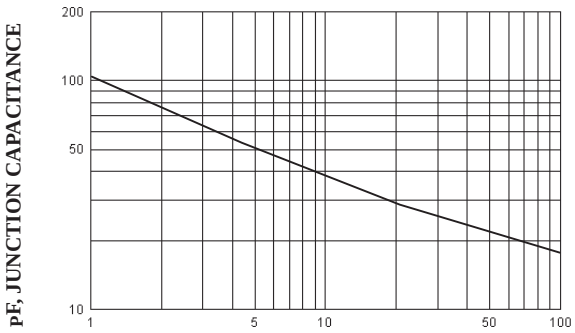


FIG.2 Typical Junction Cpacitance

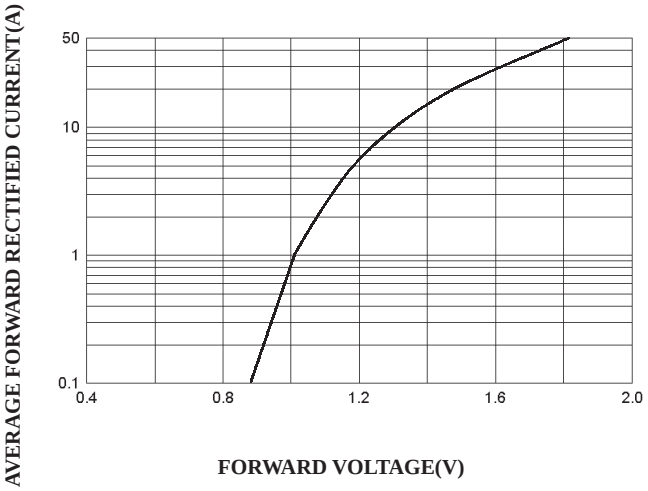


FIG.3 Typical Forward Characteristics

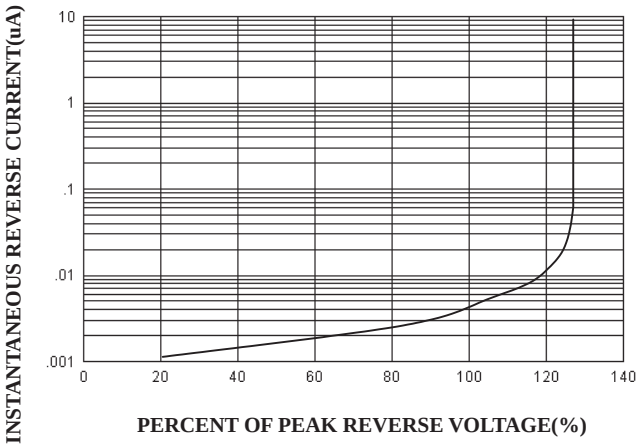


FIG.4 Typical Reverse Characteristics

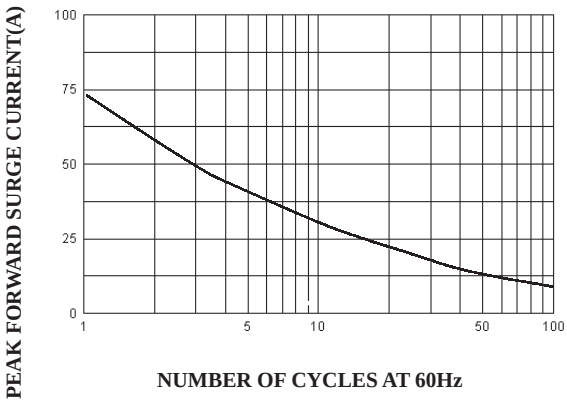


FIG.5 Peak Forward Surge Current