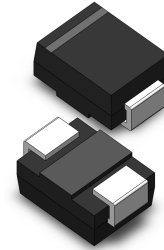


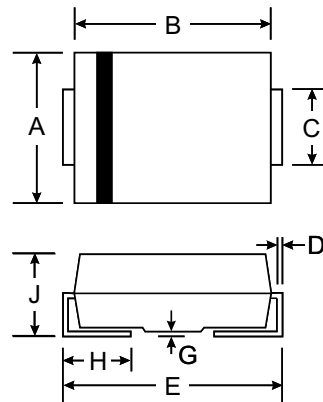
VOLTAGE RANGE: 50 - 600V
CURRENT: 1.0 A

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Low Power Loss
- Super-Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O


Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)



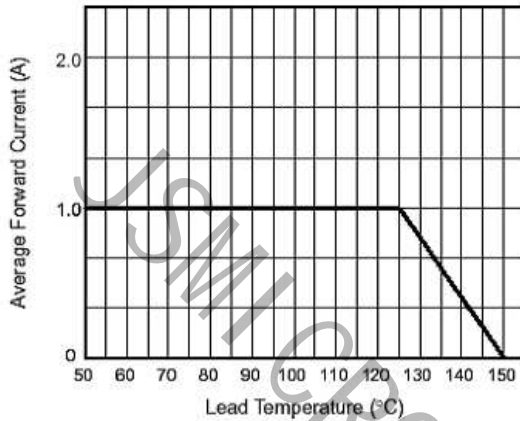
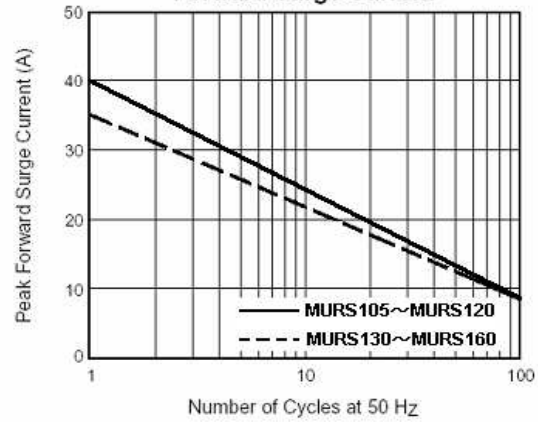
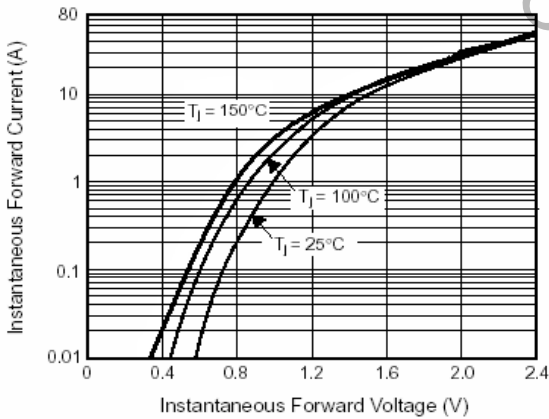
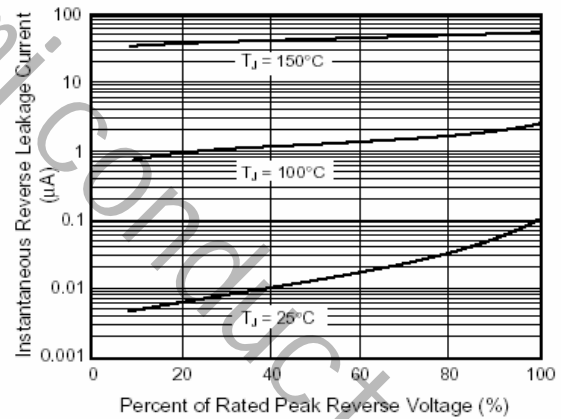
SMB(DO-214AA)		
Dim	Min	Max
A	3.30	3.94
B	4.06	4.70
C	1.91	2.21
D	0.15	0.31
E	5.00	5.59
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62
All Dimensions in mm		


Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	MURS 105	MURS 110	MURS 115	MURS 120	MURS 130	MURS 140	MURS 160	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	150	200	300	400	600	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	105	140	210	280	420	V
Average Rectified Output Current $T_L = 150^\circ\text{C}$ $T_L = 125^\circ\text{C}$	I_O	1.0 2.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	40				35			A
Forward Voltage $@ I_F = 1.0A$	V_{FM}	0.875				1.25			V
Peak Reverse Current At Rated DC Blocking Voltage $@ T_A = 25^\circ\text{C}$ $@ T_A = 100^\circ\text{C}$	I_{RM}					10.0 150			μA
Reverse Recovery Time (Note 1)	t_{rr}					35			nS
Typical Junction Capacitance (Note 2)	C_j					25			pF
Typical Thermal Resistance (Note 3)	$R_{\theta JL}$					13			$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{STG}					-65 to +150			$^\circ\text{C}$

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$. See figure 5.
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
 3. Mounted on P.C. Board with 8.0mm² land area.

RATINGS AND CHARACTERISTIC MURVES MURS105 THRU MURS160
Fig. 1 — Forward Current Derating Curve

Fig. 2 — Maximum Non-Repetitive Peak Forward Surge Current

Fig. 3 — Typical Instantaneous Forward Characteristics

Fig. 4 — Typical Reverse Leakage Characteristics

Fig. 5 — Typical Junction Capacitance
