

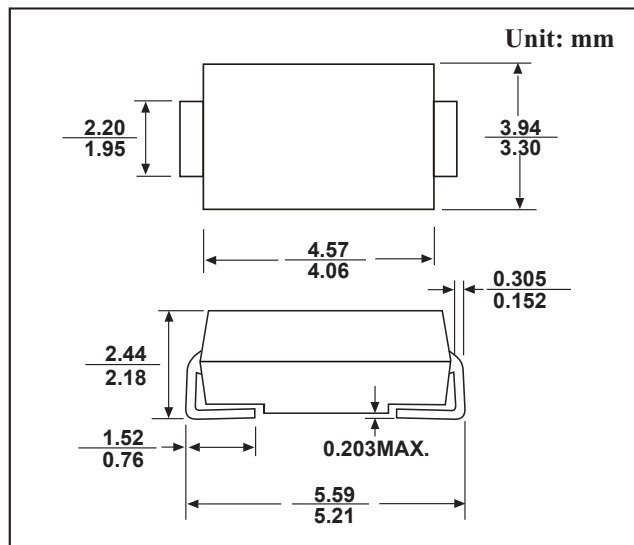
SMB High Efficient Rectifier Diodes

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High reliability
- High temperature soldering guaranteed:260 °C/10 seconds at terminals
- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case style: SMB molded plastic
- Mounting position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter		Symbol	US2A	US2B	US2D	US2G	US2J	US2K	US2M	UNITS
Maximum recurrent peak reverse voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current.375"(9.5mm) Lead Length at Ta=55℃		I _{F(AV)}	2.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	50.0							A
Maximum Instantaneous Forward Voltage at 2.0A		V _F	1.0		1.4		1.7			V
Maximum reverse current at rated DC blocking voltage	@T _A =25℃	I _R	5.0							μA
	@T _A =100℃		50.0							
Maximum reverse recovery time		t _{rr}	50				75			ns
Typical junction capacitance		C _J	20							pF
Typical thermal resistance		R _{θJA}	50							℃/W
Operating junction temperature range		T _j	- 55 ---- + 125							℃
Storage temperature range		T _{STG}	- 55 ---- + 150							℃

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

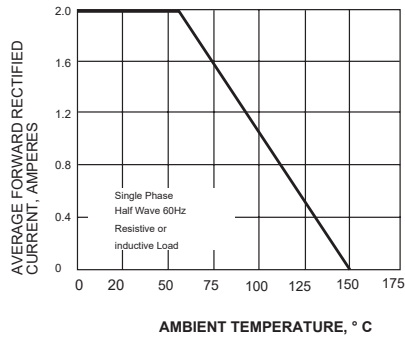


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

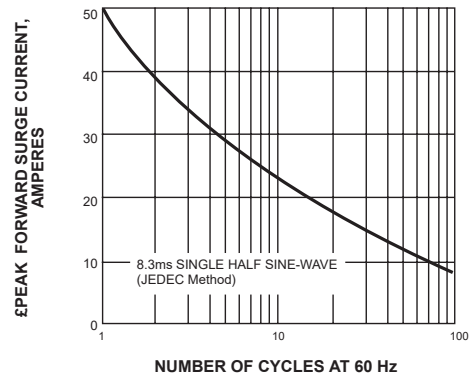


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

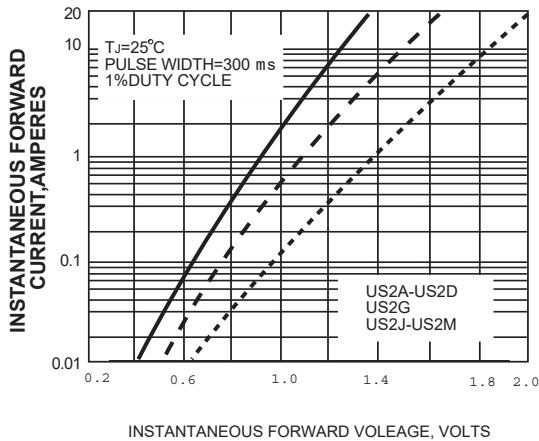


FIG.4-TYPICAL REVERSE CHARACTERISTICS

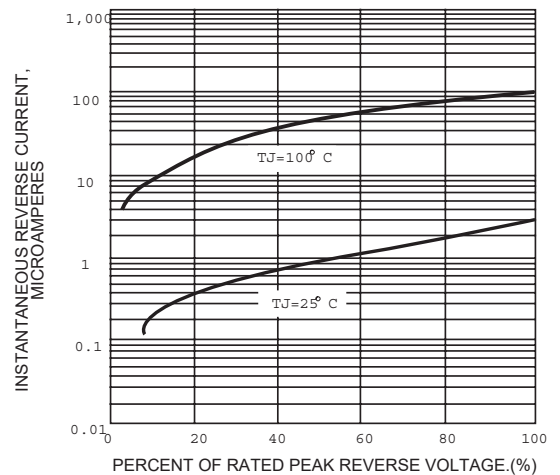


FIG. 5-TYPICAL JUNCTION CAPACITANCE

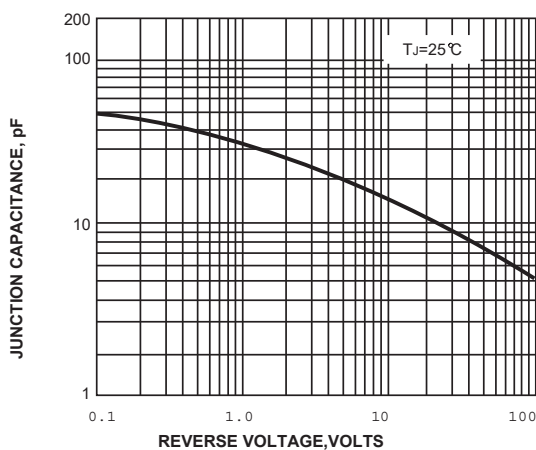


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

