Superfast Recover Rectifier
1.0A, 50~600V DO-214AA SMB

MURS1xxB Series

MERITEK

FEATURE

- Glass Passivated Die Construciton
- Superfast Recovery Times for high Efficiency
- Low Profile Package

MECHANICAL DATA

- Case: DO-214AA SMB, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Flammabilit Classification 94V-0

RoHS

MAXIMUM RATINGS and ELECTRICAL CHARACTERISTICS

Parameter		Symbol	MURS 105B	MURS 110B	MURS 115B	MURS 120B	MURS 140B	MURS 160B	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	150	200	400	600	V
Maximum RMS Voltage		V_{RMS}	35	70	105	140	280	420	V
Maximum DC Blocking Voltage		V_{DC}	50	100	150	200	400	600	V
Maximum Average Forward Rectified Current		I_{AV}	1.0						A
Peak Forward Surge Current, 8.3ms single half sine wave (JEDEC method)		I_{FSM}	30						A
Maximum Forward Voltage at 1.0A		V_F	0.875				1.10	1.25	V
Maximum Reverse Current at Rated V_{DC}	T_J =25°C	I_R	5.0						uA
	T_J =100°C		100						
Typical Thermal Resistance		$R_{\theta JA}$	75						°C/W
Typical Juction Capacitance		C_J	15						pF
Maximum Revserse Recovery Time		T_{RR}	25				35	50	nS
Operating Junction Temperature		T_J	-55 ~ 150						°C
Storage Temperature		T_{stg}	-55 ~ 150						°C

Note

1. Measured at 1MHZ and applied reverse voltage of 4.0V_{DC}
2. Thermal resistance from junction to ambient and
3. Reverse Reciovery Test Condition: IF=0.5A, IR=1A, IRR=0.25A
4. TA=25˚C unless otherwise noted, Single phase, half wave 60Hz, Resistive or inductive load. For Capacitve load, derate current by 20%

CHARACTERISTIC CURVES

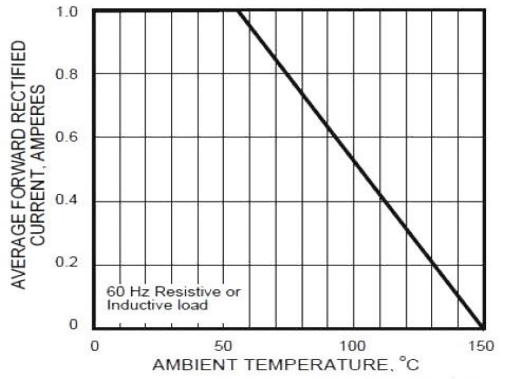

FIG.1 - FORWARD CURRENT DERATING CURVE

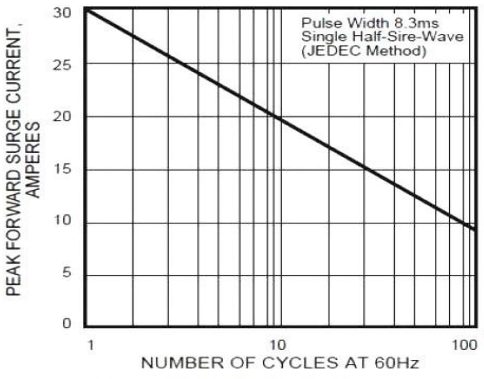

FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

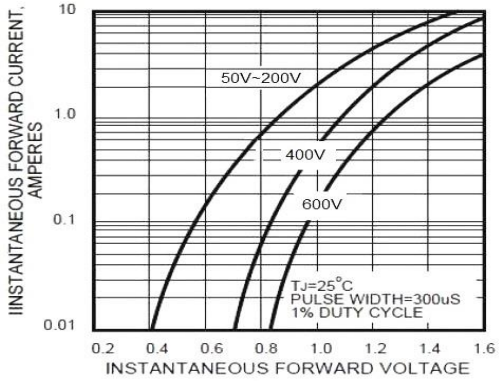

FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

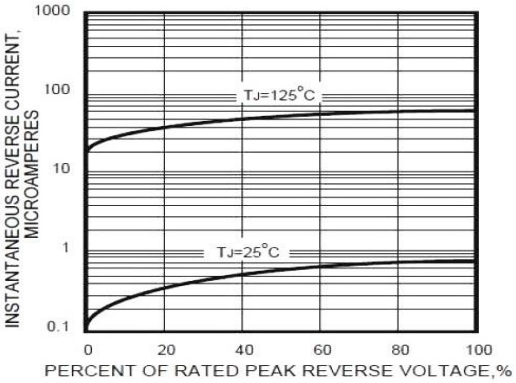

FIG.4 - TYPICAL REVERSE CHARACTERISTICS

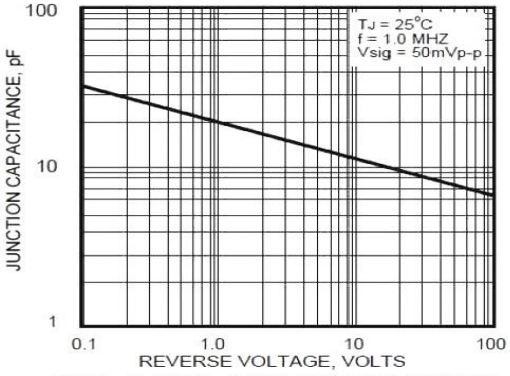

FIG.5 - TYPICAL JUNCTION CAPACITANCE

*Specifications subject to change without notice.