

FEATURES

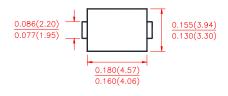
- Plastic package has UL flammability Classification 94V-0
- Glass Passivated chip junction
- Built in strain relief
- Fast switching speed for high efficiency
- High temperature soldering guaranteed: 250℃/10 seconds

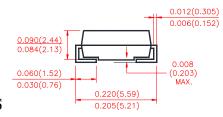
MECHANICAL DATA

- Case: JEDED DO-214AA transfer molded plastic
- Terminals: Solder plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end

VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Ampere

DO-214AA(SMB)





Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified.
- Single phase, half wave, 60Hz, resistive or inductive load.
- For capacitive load derate current by 20%.

MAXIMUM RATINGS & THERMAL CHARACTERISTICS

PARAMETELS	SYMBOLS	US2A	US2B	US2D	US2G	US2J	US2K	US2M	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current At T _L =105°C (NOTE 1)	I _(AV)	2.0						Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50						Amps	
Maximum Instantaneous Forward Voltage at 2.0A	$V_{\rm F}$	1.0			1.3	1.7			Volts
Maximum DC Reverse Current At rated DC blocking voltage at $T_A=25^{\circ}$ C $T_A=125^{\circ}$ C	I_R	5.0 100						μА	
Maximum Reverse Recovery Time Test conditions I _F =0.5A, I _R =1.0A, I _{RR} =0.25A	t _{rr}	50				75		nS	
Typical Junstion Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C_{J}	50			30		pF		
T : LTL LD : (AIOTE 1)	$R_{ heta JA}$	75						°C /W/	
Typical Thermal Resistance (NOTE 1)	$R_{ heta JL}$	17							°C/W
Operating Junction Temperature	T_{J}	(-55 to +150)					$^{\circ}$		
Storage Tempetature Rang	T_{STG}	(-55 to +150)						$^{\circ}\mathbb{C}$	

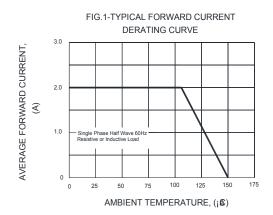
Notes:

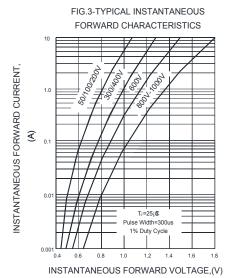
1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $0.3\times0.3''$ (8.0×8.0 mm) copper pad areas.

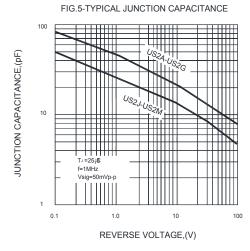
SYMBOLS	US2A	US2B	US2D	US2G	US2J	US2K	US2M
MARKING	US2A	US2B	US2D	US2G	US2J	US2K	US2M

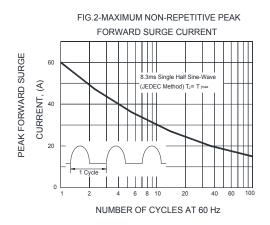


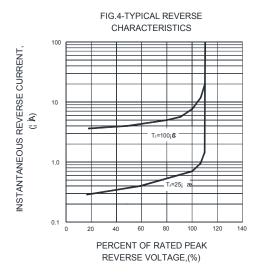
RATING AND CHRACTERISTIC CURVES

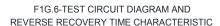


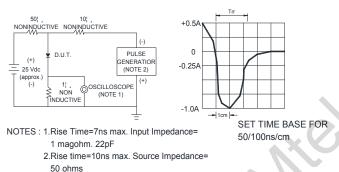












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