50V-100V 1.0A

FEATURES

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Ideally suited for use in very high frequency switching power supplies, inverters and as a free wheeling diode
- " Ultrafast recovery time for high efficiency
- " Soft recovery characteristics
- Excellent high temperature switching
- Glass passivated junction
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

Case: JEDEC DO-214AC, molded plastic body

over passivated chip

Terminals: Axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012 ounce, 0.34 gram

0.085(1.85) 0.049(1.26) 0.090(2.29) 0.090(2.29) 0.090(1.52) 0.090(0.78) 0.008(0.152) 0.008(0.203) 0.008(0.203) 0.008(0.203)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Characteristic	Symbol	US1A	US1B	US1D	US1G	US1J	US1K	US1M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current @ T _T = 7	5°C l₀	1.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated L (JEDEC Method)	oad I _{FSM}	30						А	
Forward Voltage Drop @ I _F = 1	.0A V _{FM}		1.0		1.3		1.7		V
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		5.0 100							μА
Reverse Recovery Time (Note 2)	t _{rr}		50			75		ns	
Typical Junction Capacitance (Note 1)	C _j		20			10		pF	
Typical Thermal Resistance, Junction to Terminal	$R_{ heta JT}$	30					°C/W		
Operating and Storage Temperature Range	$T_{j,} T_{STG}$	-65 to +150						°C	

Notes:

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 2. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$.

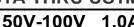




FIG. 1 - FORWARD CURRENT DERATING CURVES

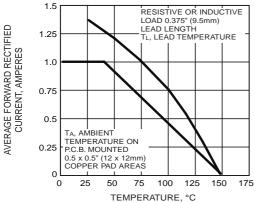


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

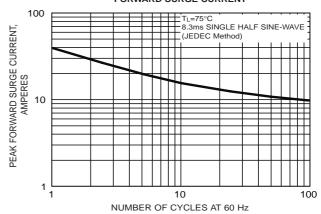


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

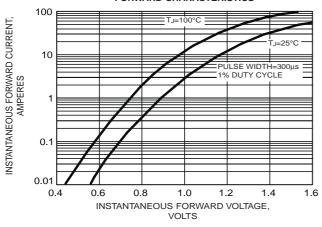


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

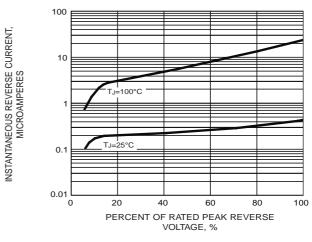


FIG. 5 - REVERSE SWITCHING **CHARACTERISTICS**

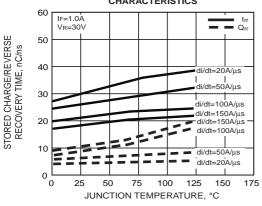
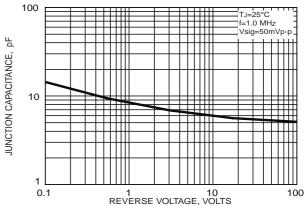


FIG. 6 - TYPICAL JUNCTION CAPACITANCE







50V-100V 1.0A

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