

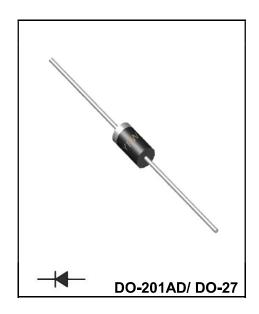
Trench MOS Barrier Schottky Rectifier

Reverse Voltage - 40 V

Forward Current - 10 A

FEATURES

- ♦Plastic Package Has Underwriters Laboratory Flammability Classification 94V-0
- ♦Metal Silicon Junction, Majority Carroer Conduction
- ♦Guard Ring For Over Voltage Protection
- **♦Low Power Loss**, High Efficiency
- ♦High Current Capability ,Low Forward Voltage Drop, High Surge Capability
- ♦For Use In Low Voltage ,High Frequency Inverters,Free Wheeling ,And Polarity Protection Applications
- ♦High Temperature Soldering:260°C MAX At 10 Second



MECHANICAL DATA

♦Case: DO-201AD/DO-27

♦Terminals: Solderable per MIL-STD-750, Method 2026

♦ Approx. Weight: 0.98g / 0.0345oz

Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified

Parameter		Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	40	V
Maximum RMS voltage		V RMS	40	v
Maximum DC Blocking Voltage		V DC	40	V
Maximum Average Forward Rectified Current(See FIG.1)		I F(AV)	10	Α
Peak Forward Surge Current, 8.3ms Single Half Sine-wave superimposed on rated load per diode		I FSM	125	Α
Operating Temperature Range		TJ	-65 ~ +150	ů
Storage Temperature Range		T _{STG}	-65 ~ +150	°C
Thermal resistance from junction to ambient	DO-27	Rелс	25	°C/W

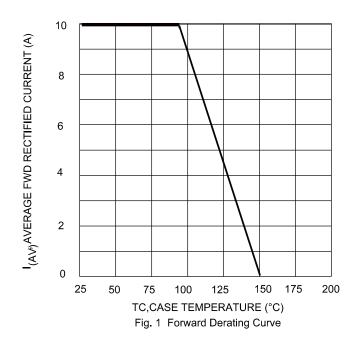
Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics		Symbols	Value		Units
Maximum instantaneous forward voltage at I(AV)(Note 1)			Тур	Max	
at I _F =2A Instantaneous forward voltage per diode	TJ=25°C	VF	0.40	-	v
	TJ=105°C		0.36	-	
at I _F =10A Instantaneous forward voltage per diode	TJ=25°C		0.51	0.53	
	TJ=105°C		0.48	-	
Maximum Reverse Current at Rated DC Blocking Voltage(Note 2)	TJ=25°C	I R	70	120	uA
	TJ=105°C		-	40	mA

Note: (1)Pulse test: 300 µs pulse width, 1 % duty cycle (2) Pulse test: Pulse width ≦ 40 ms



RATINGS AND CHARACTERISTIC CURVES



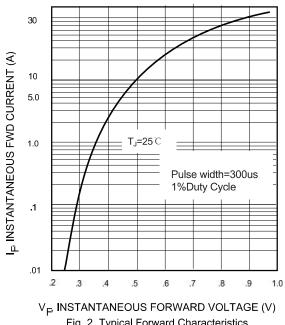
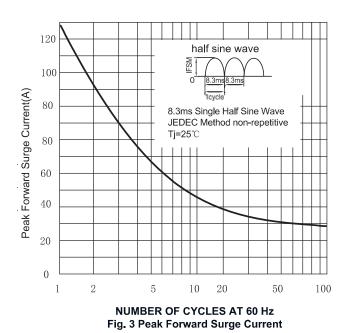
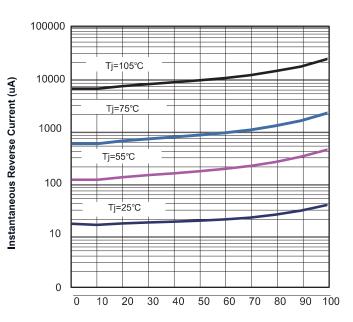


Fig. 2 Typical Forward Characteristics





PERCENT OF RATED PEAK REVERSE VOLTAGE,(%) FIG.4-TYPICAL FORWARD CHARACTERISTICS

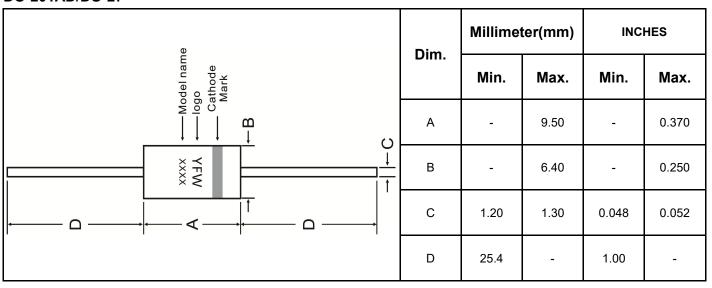


Ordering information

Package	Packing Description	Packing Quantity		
DO-201AD/DO-27	bulk	250PCS/500PCS/Box 25000PCS/Carton		
	braid	1000PCS/1250PCS/Box 10000PCS/Carton/12500PCS/Carton		

Package Dimensions

DO-201AD/DO-27





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