

SURFACE MOUNT ULTRA FAST RECTIFIER

Reverse Voltage - 200 to 600 Volts Forward Current - 1.0 Amperes

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Ultra fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
260°C/10 seconds,0.375"(9.5mm) lead length,
5 lbs. (2.3kg) tension

Mechanical Data

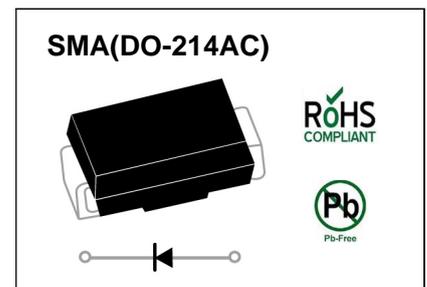
- Case:DO-214AC molded plastic body over passivated chip
- Terminals: Plated axial leads, solderable per MIL-STD-750,Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.002 ounce, 0.07 grams

Specification

Maximum Rating And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

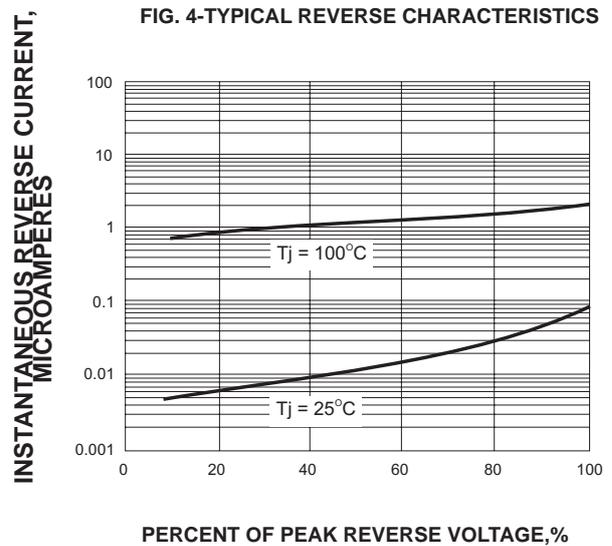
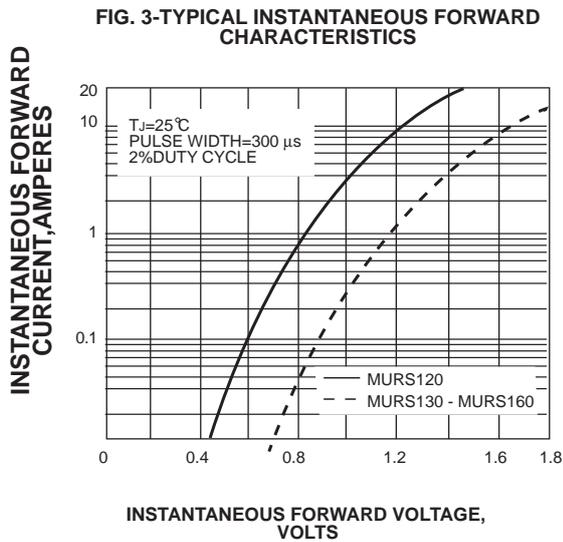
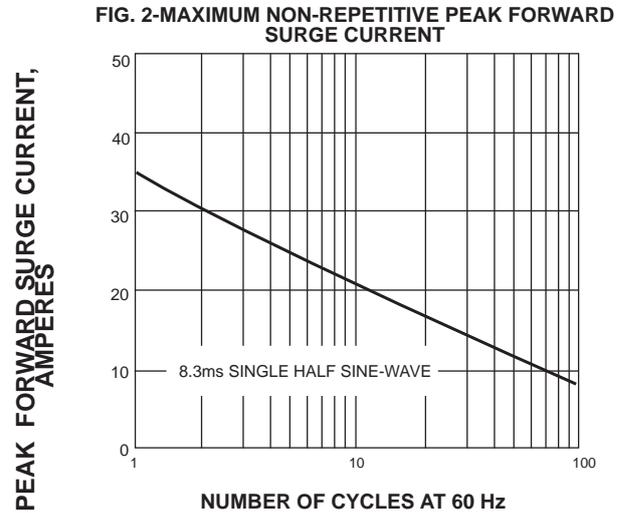
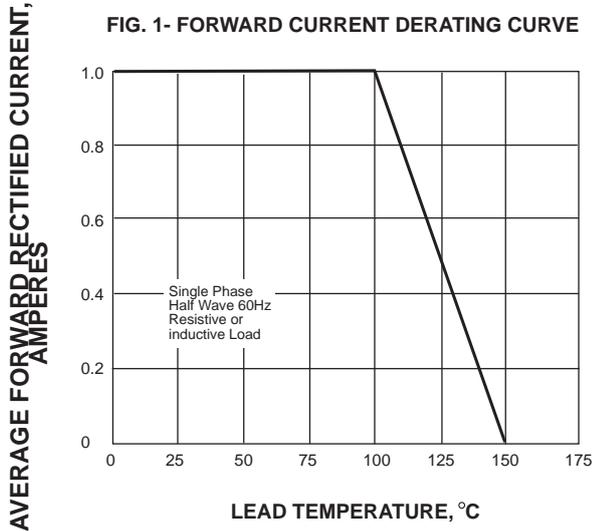
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.



	SYMBOLS	MURS120	MURS130	MURS140	MURS160	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	200	300	400	600	V
Maximum RMS voltage	V_{RMS}	140	210	280	420	V
Maximum DC blocking voltage	V_{DC}	200	300	400	600	V
Maximum average forward rectified current 0.375"(9.5mm) lead length	I_{AV}	1.0				A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	35				A
Maximum instantaneous forward voltage at 1.0A	V_F	0.875	1.25			V
Maximum DC reverse current $T_A=25^{\circ}C$ at rated DC blocking voltage $T_A=100^{\circ}C$	I_R	5.0 100.0				μA
Maximum reverse recovery time (NOTE 1)	t_{rr}	25	50			ns
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	75.0				$^{\circ}C/W$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150				$^{\circ}C$

Note: 1.Reverse recovery condition $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$
2.Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length,P.C.B. mounted

Ratings and characteristic curves MURS120 thru MURS160



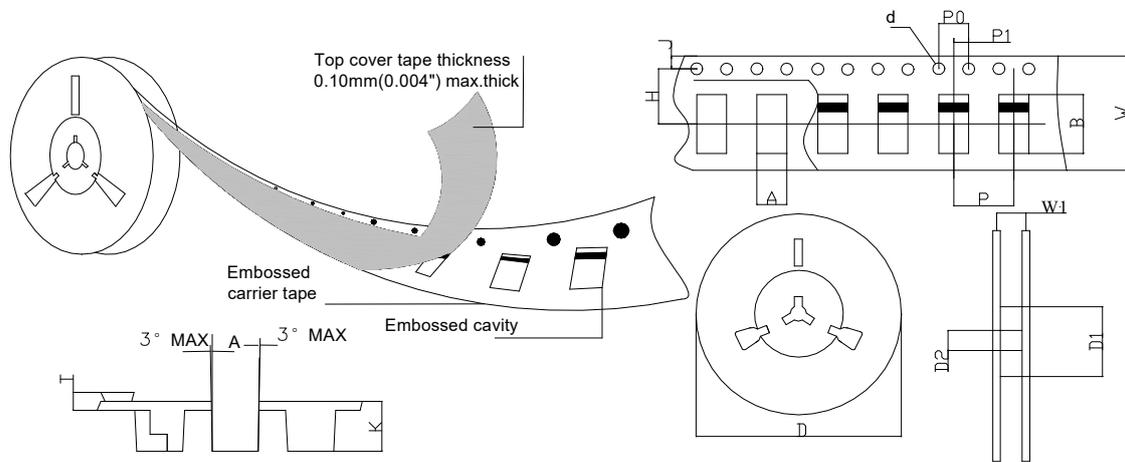
Marking and packing illustration

1、Marking



SYMBOL	Explanation
A	Product Name

2、Packaging



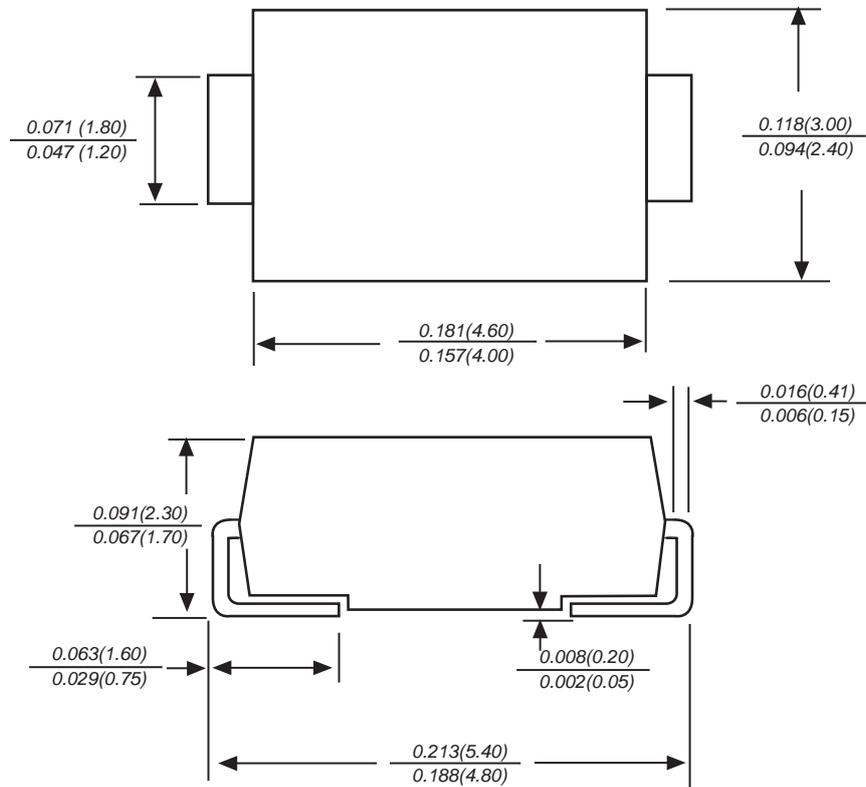
SPECIFICATIONS mm(inch)		PACKAGE	SPECIFICATIONS mm(inch)		PACKAGE
ITEM	SYM ROL	SMA (DO-214AC)	ITEM	SYM ROL	SMA (DO-214AC)
Carrier width	A	3.17(0.125)Max	Carrier depth	K	2.42(0.095)Typ
Carrier length	B	5.81(0.229)Max	Punch hole pitch	P	4.00(0.157)Typ
Sprocket hole	d	ø1.55(0.061)Typ	Sprocket hole pitch	P0	4.00(0.157)Typ
Reel outer diameter	D	178.0(7)Typ	Embossment center	P1	2.00(0.079)Typ
Reel inner diameter	D1	50.0(1.969)Min	Overall tape thickness	T	0.30(0.012)Typ
Feed hole diameter	D2	13.0(0.512)Typ	Tape width	W	12.0(0.472)Typ
Sprocket hole position	J	1.75(0.069)Typ	Reel width	W1	12.4(0.488)Min
Punch hole position	H	5.55(0.219)Typ			

3、Ordering Information

Part Number	Compliance	Case	Packaging
SSXX	Standard	SMA	2000/Tape & Reel

Dimension

SMA(DO-214AC)



Dimensions in inches and (millimeters)

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