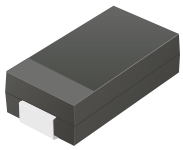
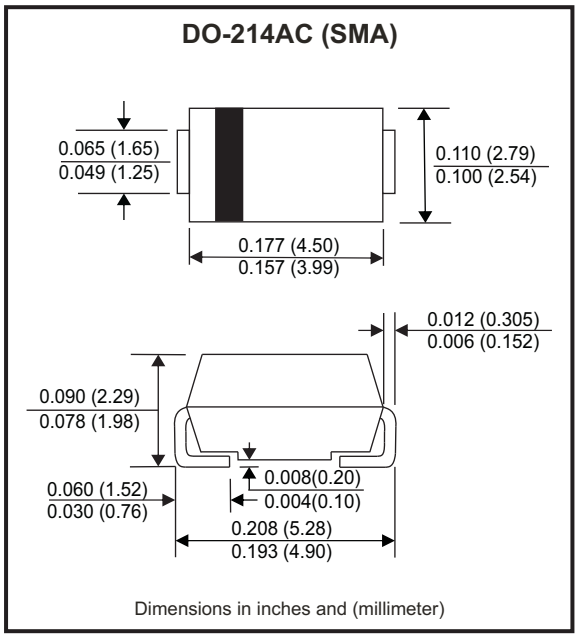
ACDBA260LR-HF

Reverse Voltage: 60 Volts
Forward Current: 2.0 Amp
RoHS Device
Halogen free





Features

- High current capability.
- High surge current capability.
- Low reverse current.
- Comply with AEC-Q101

Mechanical data

- Case: DO-214AC / SMA, molded plastic.
- Epoxy: UL flammability classification rate 94V-0 .
- Terminals: Lead free plating (Tin finish).
  Solderable per MIL-STD-202, Method 208.
- Polarity: Indicated by cathode band.
- Weight: 0.062 grams(approx.).

Circuit diagram



Maximum Ratings (at T_A=25°C unless otherwise noted)

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	Unit
Repetitive peak reverse voltage		V_{RRM}			60	V
DC blocking voltage		V_{DC}			60	V
RMS voltage		V_{RMS}			42	V
Average forward rectified current		I_F			2	A
Peak forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}			70	A
Operating Temperature range		T_J	-50		+150	°C
Storage temperature range		T_{STG}	-50		+150	°C

Electrical Characteristics (at T_A=25°C unless otherwise noted)

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	Unit
Instantaneous forward voltage	IF = 2A, T_A=25°C	V_F			0.55	V
Reverse Current	V_R = V_{RRM}, T_J=25°C	I_R			0.5	mA
	V_R = V_{RRM}, T_J=100°C	I_R			20	mA
Thermal Resistance	Junction to case	$R_{\theta JC}$		30		°C/W
Junction capacitance (Note 1)	f=1MHz and applied 4V DC reverse Voltage	C_J		150		pF

Note: 1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC.

Company reserves the right to improve product design , functions and reliability without notice.

Rating and Characteristics Curvers (ACDBA260LR-HF)

Fig.1 - Typical Forward Current Derating Curve

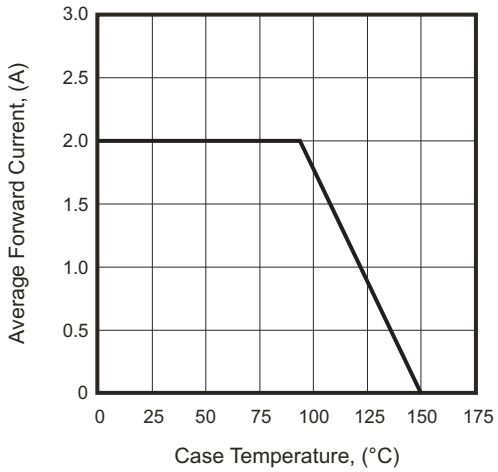


Fig.2 - Typical Forward Characteristics

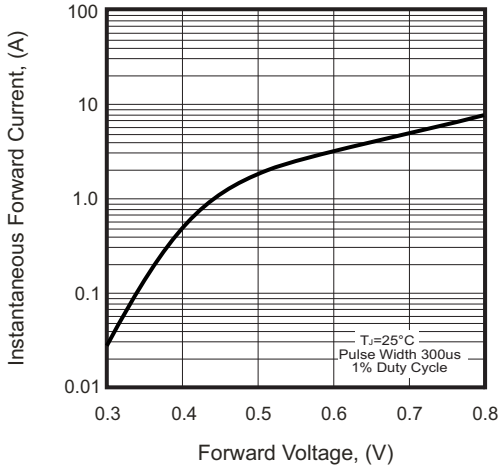


Fig.3 - Maximum Non-repetitive Forward Surge Current

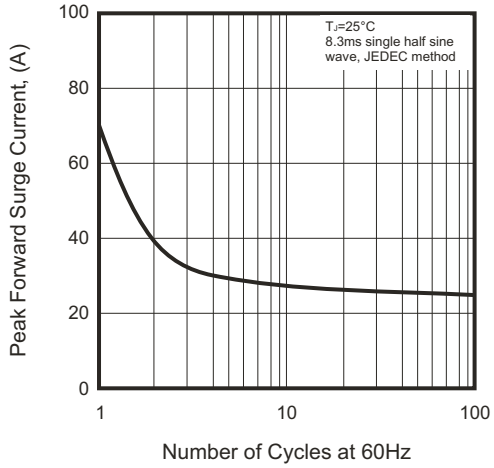


Fig.4 - Typical Reverse Characteristics

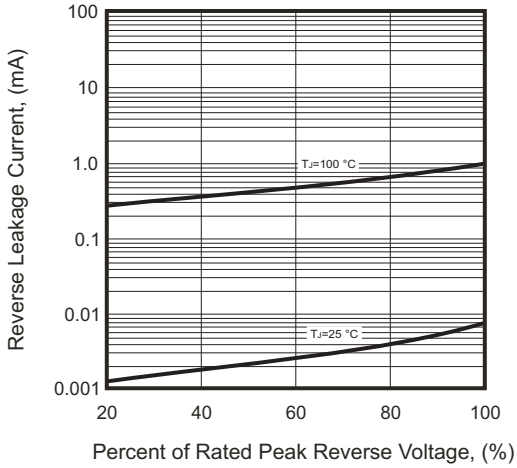
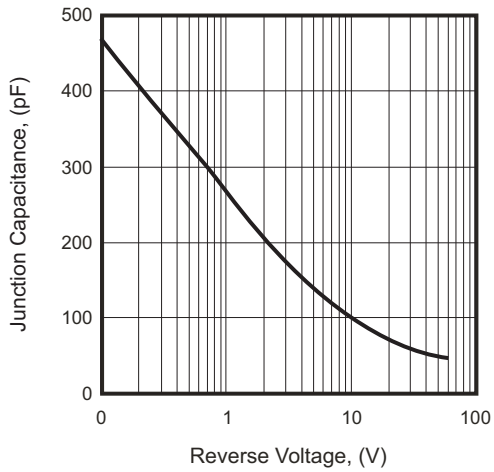
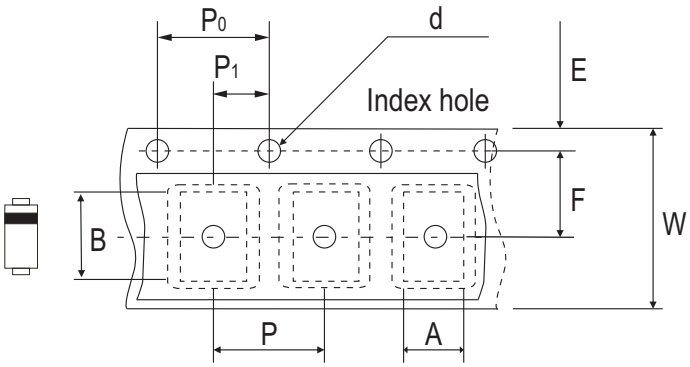
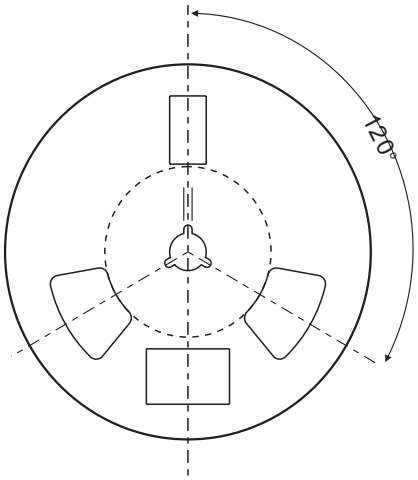


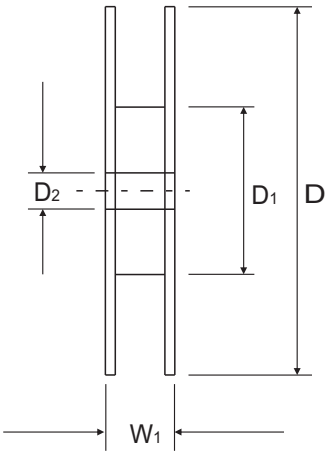
Fig.5 - Typical Junction Capacitance

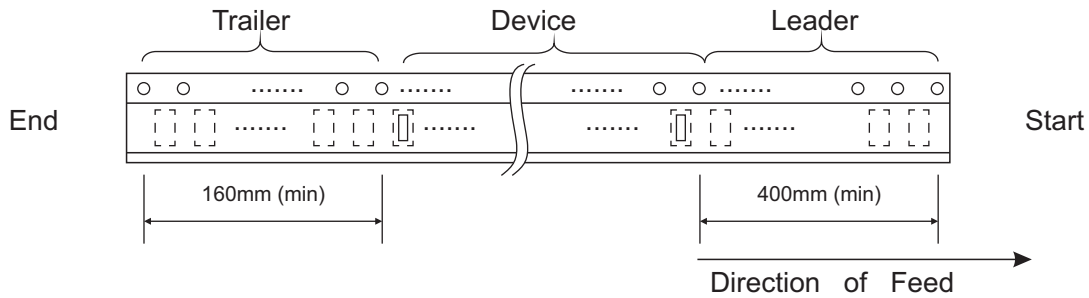


Reel Taping Specification









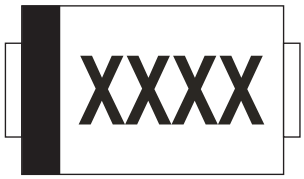
DO-214AC (SMA)	SYMBOL	A	B	C	d	D	D_1	D_2
	(mm)	2.90 MAX.	5.90 MAX.	2.66 MAX.	1.50 ± 0.10	330 ± 2.00	50 MIN.	13.50 ± 1.00
	(inch)	0.114 MAX.	0.232 MAX.	0.105 MAX.	0.059 ± 0.004	13.00 ± 0.079	1.969 MIN.	0.531± 0.039

DO-214AC (SMA)	SYMBOL	E	F	P	P_0	P_1	W	W_1
	(mm)	1.75 ± 0.10	5.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	12.00 ± 0.30	18.40 MAX.
	(inch)	0.069 ± 0.004	0.217 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.472 ± 0.012	0.724 MAX.

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Marking Code

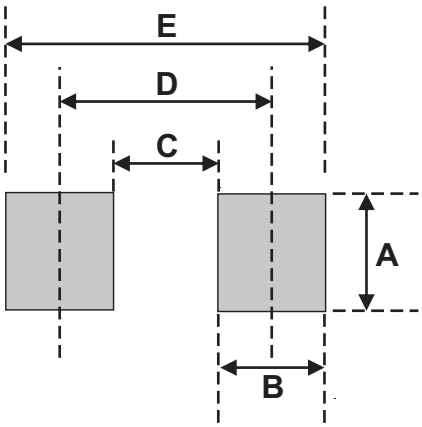
Part Number	Marking Code
ACDBA260LR-HF	KL26



XXXX = Product type marking code

Suggested PAD Layout

SIZE	DO-214AC (SMA)	
	(mm)	(inch)
A	1.70	0.067
B	2.50	0.098
C	1.50	0.059
D	4.00	0.157
E	6.50	0.256



Note:

1.The pad layout is for reference purposes only.

Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
DO-214AC (SMA)	5,000	13