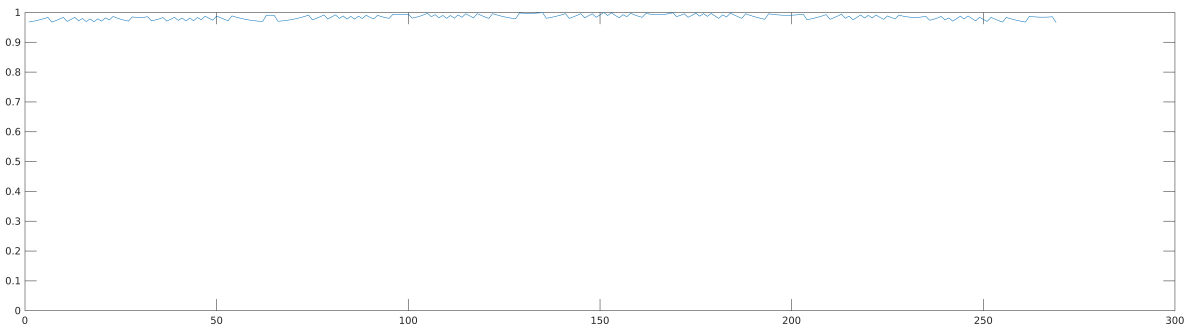
```
I = readmeta(1);
imshow(I)
```


```
displayChannels(I);
```


```
red = splitColor(I);
raux = bwareafilt(red, 1);

[numPeaks, sign] = shapeSignature(raux, 0.04);
plot(sign)
ylim([0 1])
```




```
numPeaks
```

```
numPeaks = 0
```

```
shapeDiff = max(sign) - min(sign)
```

```
shapeDiff = 0.0339
```

```
regionprops(raux, 'Circularity', 'Extent', 'EulerNumber')
```

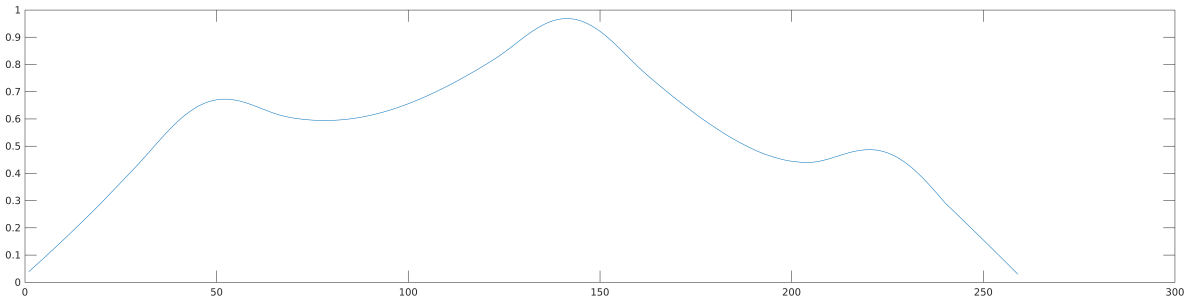
```
ans = struct with fields:
    Circularity: 0.2961
    EulerNumber: 0
         Extent: 0.2259
```

```
I = readmeta(13);
imshow(I)
```

```
displayChannels(I);
```

```
red = splitColor(I);
raux = bwareafilt(red, 1);

[numPeaks, sign] = shapeSignature(raux, 0.04);
plot(sign)
ylim([0 1])
```



```
numPeaks
```

```
numPeaks = 3
```

```
shapeDiff = max(sign) - min(sign)
```

```
shapeDiff = 0.9388
```

```
regionprops(raux, 'Circularity', 'Extent', 'EulerNumber')
```

```
ans = struct with fields:
    Circularity: 0.2935
    EulerNumber: 0
         Extent: 0.2338
```

```
I = readmeta(40);
imshow(I)
```

```
displayChannels(I);
```

```
I = readmeta(26);
imshow(I)
```

```
displayChannels(I);
```

```
I = readimg(1, 65, 20);
imshow(I)
```


```
I = preprocess(I);
displayChannels(I)
```

```
[red, blue, yellow, black, white] = splitColor(I);

raux = bwareafilt(red, 1);

[numPeaks, sign] = shapeSignature(raux, 0.03);
numPeaks
```

```
numPeaks = 5
```

```
shapeDiff = max(sign) - min(sign)
```

```
shapeDiff = 0.2639
```

```
regionprops(raux, 'Circularity', 'Extent', 'EulerNumber')
```

```
ans = struct with fields:
    Circularity: 0.3336
    EulerNumber: 0
         Extent: 0.3690
```

```
plot(sign)
ylim([0 1])
```